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SPECIAL PARTS SECTION FOR 4.0 CCK-3CE/ & 5.0CCK-3CE/ CONTRACTORS MODELS

1 C5 ***** AIR HOUSING AND OPTIONAL AIR SHUTTER GROUP

1 C5 ***** CONTROL GROUP

1 C5 ***** FUEL SYSTEM GROUP

1 C5 ***** GEAR COVER, OIL BASE AND OIL PUMP GROUP

1 C5 ***** GENERATOR GROUP

GENERAL INFORMATION

INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

This catalog applies to the standard CCK Plants as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to a reference number following the illustration. Parts illustrations are typical. Using the *Model and Spec No.* from the plant nameplate, select the Parts Key No. (1, 2, etc. in the last column) that applies to your plant Model and Spec No. This Parts Key No. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left plant sides are determined by facing the engine end (front) of the plant.

PLANT DATA TABLE

★ MODEL & SPEC NO.	TYPE	ELECTRICAL DATA					PARTS KEY NO.
		WATTS	VOLTS	HERTZ	WIRE	PHASE	
4.0CCK-1M/±	MANUAL	4000**	120	60	2	1	1
4.0CCK-2M/±	MANUAL	4000**	240	60	2	1	1
4.0CCK-3M/±	MANUAL	4000**	120/240	60	3	1	1
4.0CCK-4M/±	MANUAL	4000**	120/208	60	4	3	1
4.0CCK-5M/±	MANUAL	4000**	240	60	3	3	1
3.5CCK-51M/±	MANUAL	3500	120	50	2	1	1
3.5CCK-52M/±	MANUAL	3500	240	50	2	1	1
3.5CCK-53M/±	MANUAL	3500	120/240	50	3	1	1
4.0CCK-1P/±	PORTABLE	4000**	120	60	2	1	2
4.0CCK-2P/±	PORTABLE	4000**	240	60	2	1	2
4.0CCK-3P/±	PORTABLE	4000**	120/240	60	3	1	2
4.0CCK-3CP/±	PORTABLE	4000**	120/240	60	†	1	2
4.0CCK-4P/±	PORTABLE	4000**	120/208	60	4	3	2
4.0CCK-5P/±	PORTABLE	4000**	240	60	3	3	2
3.5CCK-51P/±	PORTABLE	3500	120	50	2	1	2
3.5CCK-52P/±	PORTABLE	3500	240	50	2	1	2
3.5CCK-53P/±	PORTABLE	3500	120/240	50	3	1	2
3.5CCK-53CP/±	PORTABLE	3500	120/240	50	†	1	2
3.5CCK-55P/±	PORTABLE	3500	240	50	3	3	2
4.0CCK-1R/±	REMOTE	4000**	120	60	2	1	3
4.0CCK-2R/±	REMOTE	4000**	240	60	2	1	3
4.0CCK-3R/±	REMOTE	4000**	120/240	60	3	1	3
4.0CCK-3CR/±	REMOTE	4000**	120/240	60	†	1	3
4.0CCK-4R/±	REMOTE	4000**	120/208	60	4	3	3
4.0CCK-5R/±	REMOTE	4000**	240	60	3	3	3
3.5CCK-51R/±	REMOTE	3500	120	50	2	1	3
3.5CCK-52R/±	REMOTE	3500	240	50	2	1	3
3.5CCK-53R/±	REMOTE	3500	120/240	50	3	1	3
3.5CCK-53CR/±	REMOTE	3500	120/240	50	†	1	3
3.5CCK-55R/±	REMOTE	3500	240	50	3	3	3
4.2CCK-52R/±	REMOTE	4250	240	50	2	1	4
4.2CCK-53R/±	REMOTE	4250	120/240	50	3	1	4
4.2CCK-53CR/±	REMOTE	4250	120/240	50	†	1	4
4.2CCK-55DR/±	REMOTE	4250	120/240	50	4	3	4
4.2CCK-57R/±	REMOTE	4250	220/380	50	4	3	4

PLANT DATA TABLE (Continued)

★ MODEL & SPEC NO.	TYPE	ELECTRICAL DATA					PARTS KEY NO.
		WATTS	VOLTS£	HERTZ	WIRE	PHASE	
5.0CCK-1M/±	MANUAL	5000	120	60	2	1	5
5.0CCK-2M/±	MANUAL	5000	240	60	2	1	5
5.0CCK-3M/±	MANUAL	5000	120/240	60	3	1	5
5.0CCK-4M/±	MANUAL	5000	120/208	60	4	3	5
5.0CCK-5M/±	MANUAL	5000	240	60	3	3	5
5.0CCK-1P/±	PORTABLE	5000	120	60	2	1	6
5.0CCK-2P/±	PORTABLE	5000	240	60	2	1	6
5.0CCK-3P/±	PORTABLE	5000	120/240	60	3	1	6
5.0CCK-3CP/±	PORTABLE	5000	120/240	60	†	1	6
5.0CCK-4P/±	PORTABLE	5000	120/208	60	4	3	6
5.0CCK-5P/±	PORTABLE	5000	240	60	3	3	6
5.0CCK-1R/±	REMOTE	5000	120	60	2	1	7
5.0CCK-2R/±	REMOTE	5000	240	60	2	1	7
5.0CCK-3R/±	REMOTE	5000	120/240	60	3	1	7
5.0CCK-3CR/±	REMOTE	5000	120/240	60	†	1	7
5.0CCK-4R/±	REMOTE	5000	120/208	60	4	3	7
5.0CCK-4XR/±	REMOTE	5000	277/480	60	4	3	7
5.0CCK-5R/±	REMOTE	5000	240	60	3	3	7
5.0CCK-115P/±	PORTABLE	5000	120	DC	—	—	8
5.0CCK-150M/±	MANUAL	5000	250	DC	—	—	9
5.0CCK-150R/±	REMOTE	5000	250	DC	—	—	10
Contractor Models	See Special Parts List Following Standard Parts List						

•• - Identical to early models stamped 305CCK.

± - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

£ - Reference to 120, 240 and 120/240 volt also applies to 115, 230 and 115/230 volt.

† - These generators have 4 load wires which are reconnectable for 120 volt 2 wire service, or 240 volt 2 wire service, or 120/240 volt 3 wire service.

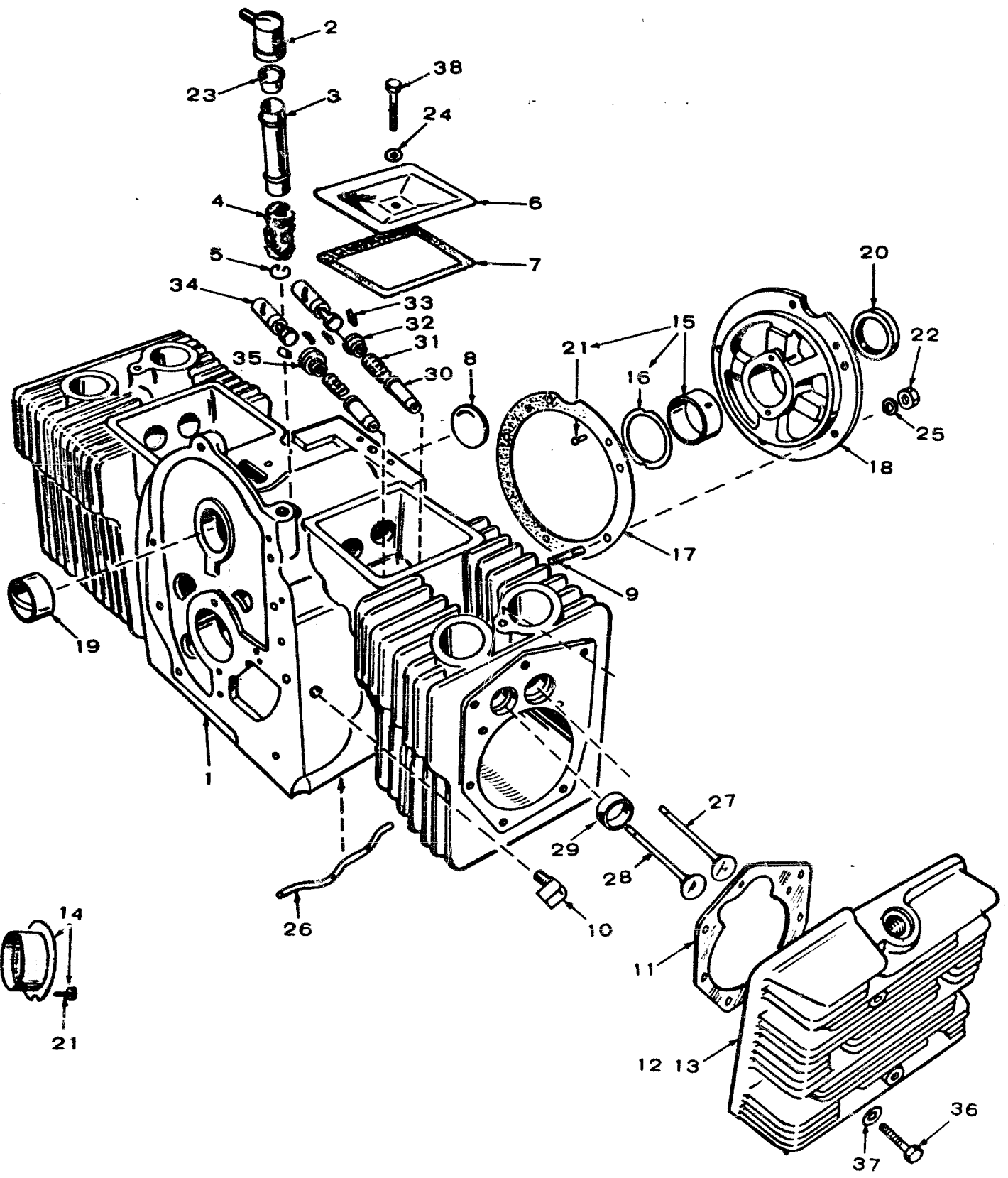
★ - New model designations shown, begin during 1969. Previous designations did not use a decimal in the KW rating. EXAMPLE: 3.5CCK was formerly 305CCK and 4.0CCK was formerly 4CCK. Also previously a V was used in the model to designate vacu-flo cooling.

NOTE: Hertz is a unit of frequency equal to one cycle per second.

NOTICE

The Onan part numbering system has been changed to computerize the numbers. Letter in the number will be replaced with a dash (—) and number after the dash will be zero filled. Parts invoices will have the new computerized number, part remains the same. Parts Catalogs will be revised as time permits.

EXAMPLE:	Old Number	New Number
	101A86	101-0086
	110A1895	110-1895



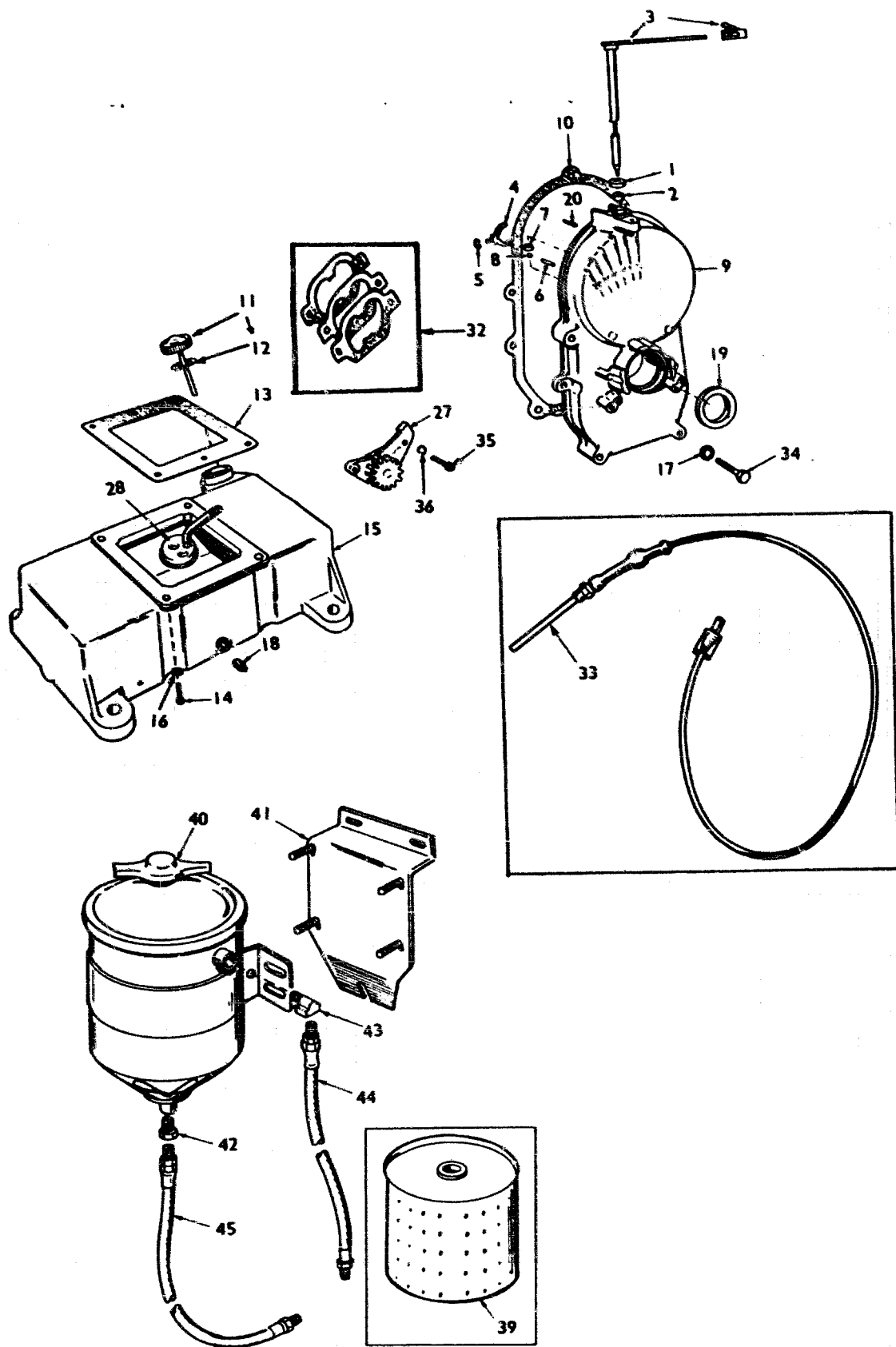
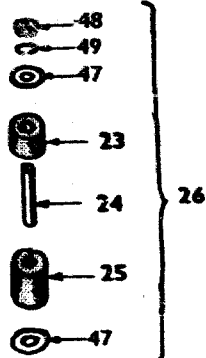
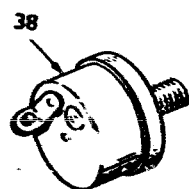
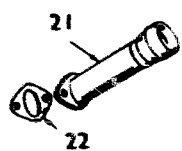
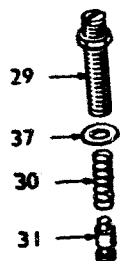
CYLINDER BLOCK GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110A915	1	Block Assy., Cylinder (Incl. Parts Marked *)
2	123B293	1	Cap, Breather Tube (Rubber)
3	123A129	1	Tube, Breather (Incl. Steel Baffles)
4	123A129	1	Baffle, Breather Tube Models without Steel Baffles Order 123A129 (Includes Baffles)
5	123A643	1	Ring, Breather Baffle Retainer (Models without Steel Baffle)
6	110A666	2	Cover, Valve Compartment
7	110A667	2	Gasket, Valve Cover
8	517-48	1	*Plug, Camshaft Expansion
9	520A114	5	*Stud, Rear Bearing Plate Mtg. (5/16 x 1-5/16")
10	502A20	1	Elbow, Street Oil Line
11	110A892	2	Gasket, Cylinder Head
12	HEAD, CYLINDER, RIGHT #2 CYLINDER		
	110D890	1	Standard Compression
	110D884	1	Hi-Compression, Gas Fuel Models
13	HEAD, CYLINDER, LEFT, #1 CYLINDER		
	110D891	1	Standard Compression
	110D883	1	Hi-Compression, Gas Fuel Models
14	BEARING, CRANKSHAFT - PRIOR TO SPEC F (Includes Stop Pins)		
	101K181	2	Standard
	101K181-02	2	.002" Undersize
	101K181-10	2	.010" Undersize
	101K181-20	2	.020" Undersize
	101K181-30	2	.030" Undersize
15	*BEARING, CRANKSHAFT - BEGIN SPEC F (Includes Thrust Washer and Stop Pins)		
	101K420	2	Standard
	101K420-02	2	.002" Undersize
	101K420-10	2	.010" Undersize
	101K420-20	2	.020" Undersize
	101K420-30	2	.030" Undersize
16	104A575	2	*Washer, Crankshaft Bearing Thrust - Begin Spec F
17	101K115	1	*Gasket Kit, Bearing Plate
18	*PLATE, BEARING (EXCLUDES BEARING)		
	101C258	1	Prior to Spec F
	101C316	1	Begin Spec F

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	101A367	2	*Bearing, Camshaft Front & Rear (Precision)
20	509A41	1	Seal, Bearing Plate
21	516A72	4	*Pin, Main Bearing Stop (2 Only Prior to Spec F)
22	110A445	5	*Nut, Bearing Plate Stud
23	123A104	1	Valve, Breather Tube
24	526-63	2	Washer (Copper), Valve Comp.
25	850-45	5	*Washer, Lock (5/16) Rear Bearing Plate
26	120A386	1	*Tube, Crankcase Oil
27	110B881	2	Valve, Intake (Steel)
28	110B880	2	Valve, Exhaust (Stellite)
29	*INSERT, EXHAUST VALVE SEAT (STELLITE)		
	110A872	2	Standard
	110A872-02	2	.002" Oversize
	110A872-05	2	.005" Oversize
	110A872-10	2	.010" Oversize
	110A872-25	2	.025" Oversize
30	110A902	4	*Guide, Valve
31	110A539	4	Spring, Valve
32	110A893	2	Washer, Valve Spring Retaining (Intake)
33	110A639	8	Lock, Valve & Spring Ret.
34	TAPPET, VALVE		
	115A6	4	Standard
	115A6-05	4	.005" Oversize
35	110A904	2	Rotocap, Exhaust Valve
36	SCREW, HEX HEAD CAP (HARDENED)		
	110A879	8	Cylinder Head (5/16-18 x 1-1/4")
	110A284	10	Cylinder Head (5/16-18 x 1-1/2") - Prior to Serial #549970
	114A22	10	Cylinder Head (5/16-18 x 1-3/4") - Begin Serial #549970
37	526A122	18	Washer (Flat), Cylinder Head Screws
38	800-12	2	Screw (1/4-20 x 2-1/4") - Valve Compartment Cover

* - Included in 110A915 Cylinder Block Assembly.

NOTE: Engine valves and related parts do not apply to Spec A plants. Order valves, valve spring retainers, rotor caps, guides, and cylinder block by description giving complete Model, Spec, and Serial No.



GEAR COVER, OIL BASE
AND OIL PUMP GROUP

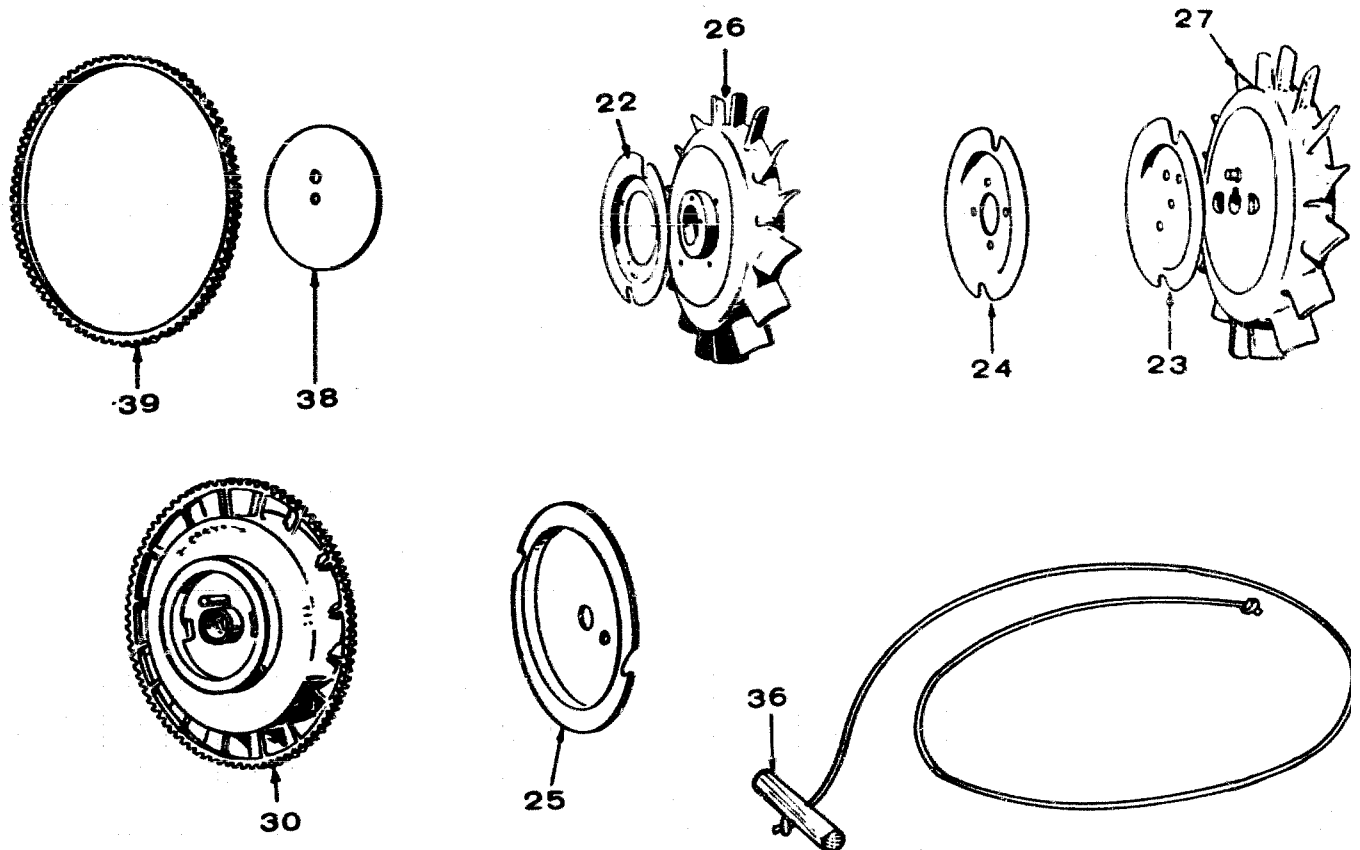
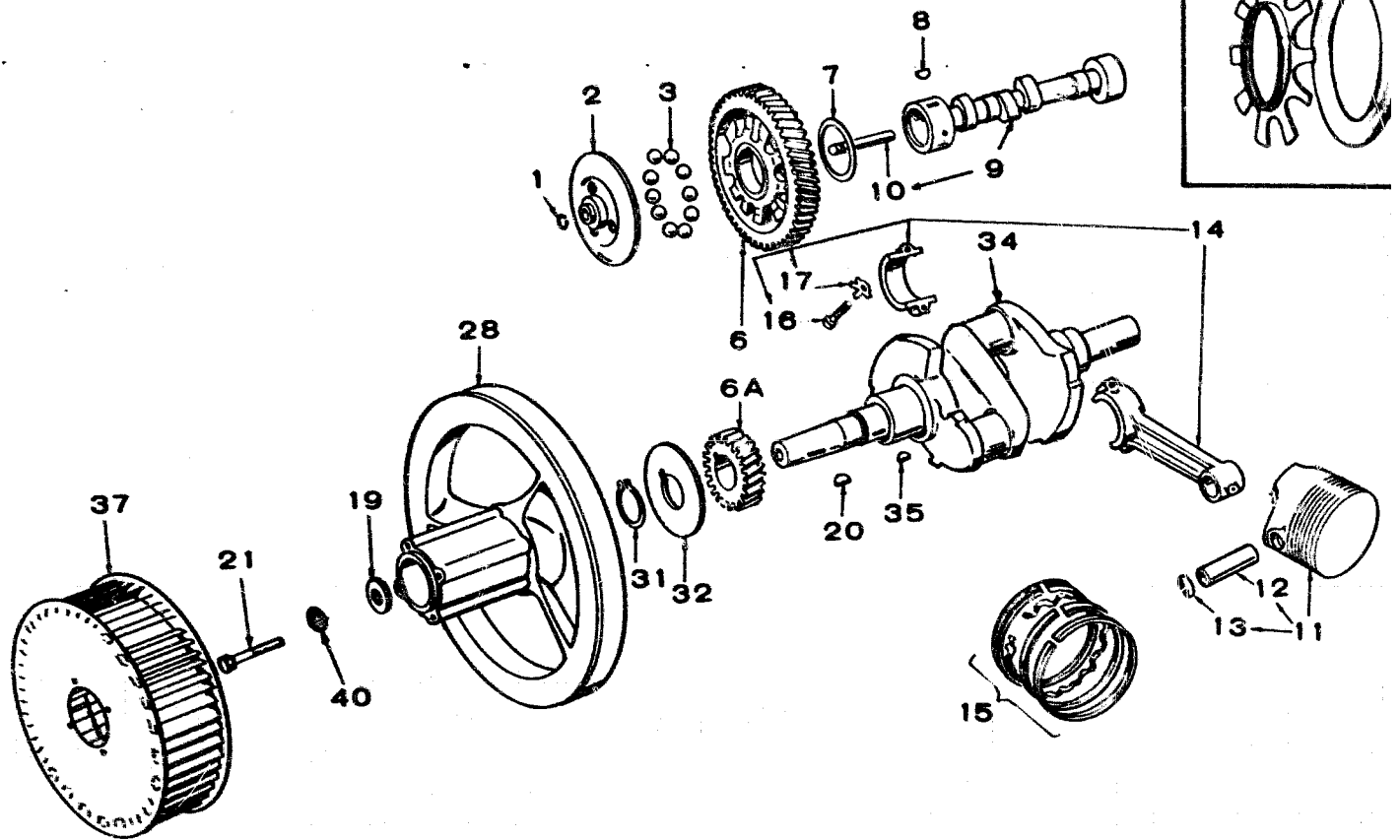
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	509-8	1	*Seal, Oil - Governor Shaft
2	510P13	1	*Bearing, Governor Shaft Upper
3	150-710	1	*Shaft & Arm Assembly, Governor (Includes Adjusting Clip)
4	150A620	1	*Yoke, Governor Shaft
5	518-129	1	*Ring, Yoke Retainer "E"
6	516-130	1	*Pin, Governor Cup Stop (In Gear Cover)
7	510A8	1	*Bearing, Governor Shaft, Lower
8	510P14	1	*Ball, Bearing - Governor Shaft
9	103-207	1	Cover Assembly, Gear (Includes Parts Marked *)
10	103B11	1	Gasket, Gear Cover
11	INDICATOR, OIL FILL		Key 1, 2, 5, 6, 8
	123A510	1	Prior to Spec D
	123A489	1	Begin Spec D
	123A489	1	Key 3, 4, 7, 9
	123A544	1	Key 10
12	123A191	1	Gasket, Oil Fill Cap
13	102B158	1	Gasket, Oil Base Mounting
14	102A455	4	Screw, Cap, Oil Base to Block
15	BASE, OIL		Key 1, 2, 5, 6, 8
	102A331	1	Prior to Spec D
	102A418	1	Begin Spec D
	102A428	1	Key 3, 4, 7, 9
	102E395	1	Key 10
	102A467	1	Key 3, 4, 7 With Oil Filter - Optional
	£	1	Key 1, 2, 5, 6, 8, 9, 10 With Oil Filter - Optional
16	850-50	4	Washer, Lock (3/8)
17	850-45	5	Washer, Lock (5/16)
18	PLUG, OIL DRAIN		
	505-110	1	Early Models (3/8)
	505-56	1	Later Models (1/2)
19	509A40	1	*Seal, Gear Cover
20	516A11	2	Pin, Gear Cover (5/16 x 1-1/8")
21	123B531	1	Tube, Oil Fill, Key 10
22	141A78	1	Gasket, Oil Fill Tube Mounting - Key 10
23	402A131	4	Cushion, Plant Mounting (Upper)
24	BUSHING, SPACER		
	402A137	4	Key 1, 2, 3, 4, 5, 6, 7, 8, 9
	402A137	2	Key 10 (Generator End)
	402A176	2	Key 10 (Engine End)
25	CUSHION, PLANT MOUNTING (LOWER)		
	402A38	4	Key 1, 2, 3, 4, 5, 6, 7, 8, 9
	402A38	2	Key 10 (Generator End)
	402A36	2	Key 10 (Engine End)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
26	CUSHION ASSEMBLY, PLANT MOUNTING (INCLUDES CUSHIONS, BUSHING & HARDWARE)		
	402A145	4	Key 2, 6, 8
	402A138	4	Key 1, 3, 4, 5, 7, 9
	402A138	2	Key 10 (Generator End)
	402A177	2	Key 10 (Engine End)
27	120A491	1	Pump, Oil, Complete (Internal parts not sold separately).
28	CUP, OIL PUMP INTAKE (INCLUDES PIPE, CUP AND SCREEN)		Key 1, 2, 5, 6, 8
	120B411	1	Prior to Spec D
	120B400	1	Begin Spec D
	120B400	1	Key 3, 4, 7, 9, 10
29	120A187	1	Stud Assembly, By-Pass Adj. (Includes Nut)
30	120A140	1	Spring, By-Pass Valve
31	120A398	1	Valve, By-Pass
32	120K161	1	Gasket Kit, Oil Pump
33	102B558	1	Heater, Oil Base (Optional)
34	SCREW, GEAR COVER MOUNTING		
	114A22	4	5/16-18 x 1-3/4"
	800-34	1	5/16-18 x 2-1/4"
35	800-7	2	Screw (1/4-20 x 1") - Oil Pump Mounting
36	850-40	2	Washer, Lock (1/4)
37	526-66	1	Washer, Oil Pressure Relief
38	309-10	1	Switch, Low Oil Pressure (Opt.)
39	122-37	1	Cartridge, Oil Filter, Includes Gasket (Optional)
40	122C91	1	Filter, Oil - Includes Cartridge (Optional)
41	122B88	1	Bracket, Oil Filter Mounting (Optional)
42	502-3	1	Connector, Oil Filter Outlet (Optional)
43	502-2	1	Elbow, Oil Filter Inlet - (Optional)
44	501A4	1	Line, Oil Filter Return - (Opt.)
45	501A5	1	Line, Oil Filter - Pressure (Optional)
47	526-76	8	Washer, Flat (11/32" I.D. x 1-1/2" O.D. x 1/16")
48	862-15	4	Nut, Hex (5/16-18)
49	850-46	4	Washer, Lock (5/16)

* - Included in Gear Cover Assembly.

£ - Refer to factory giving complete Model, Spec, and Serial Number.

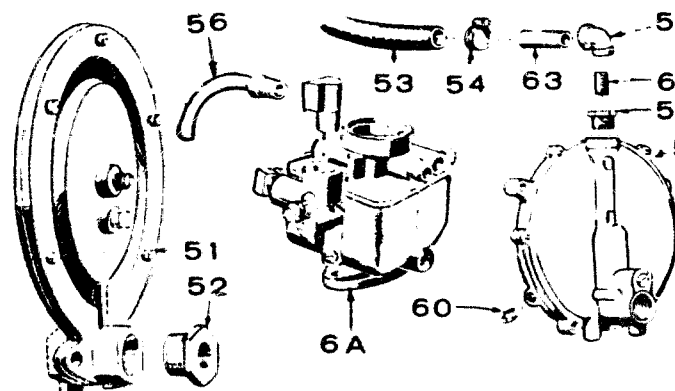
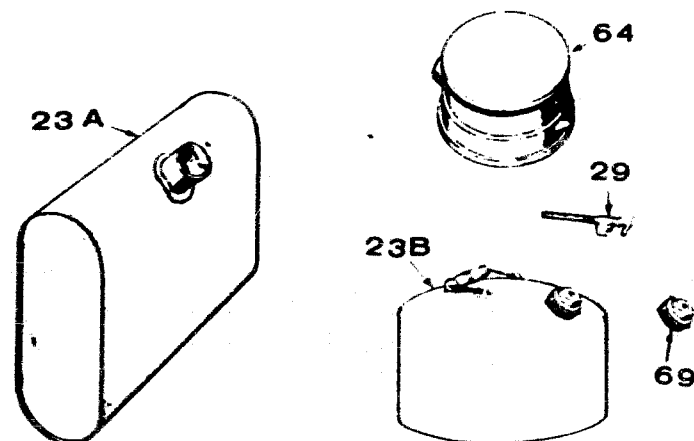
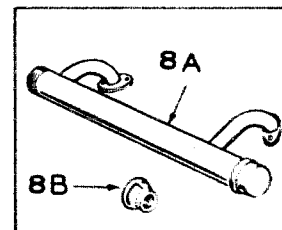
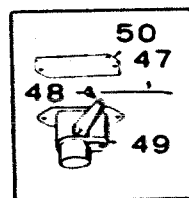
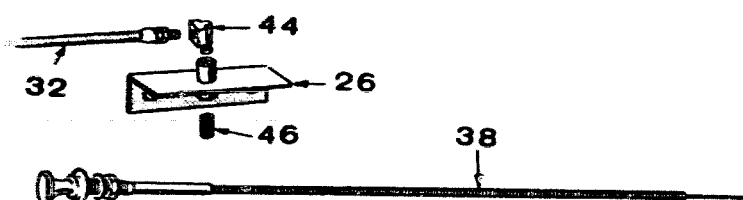
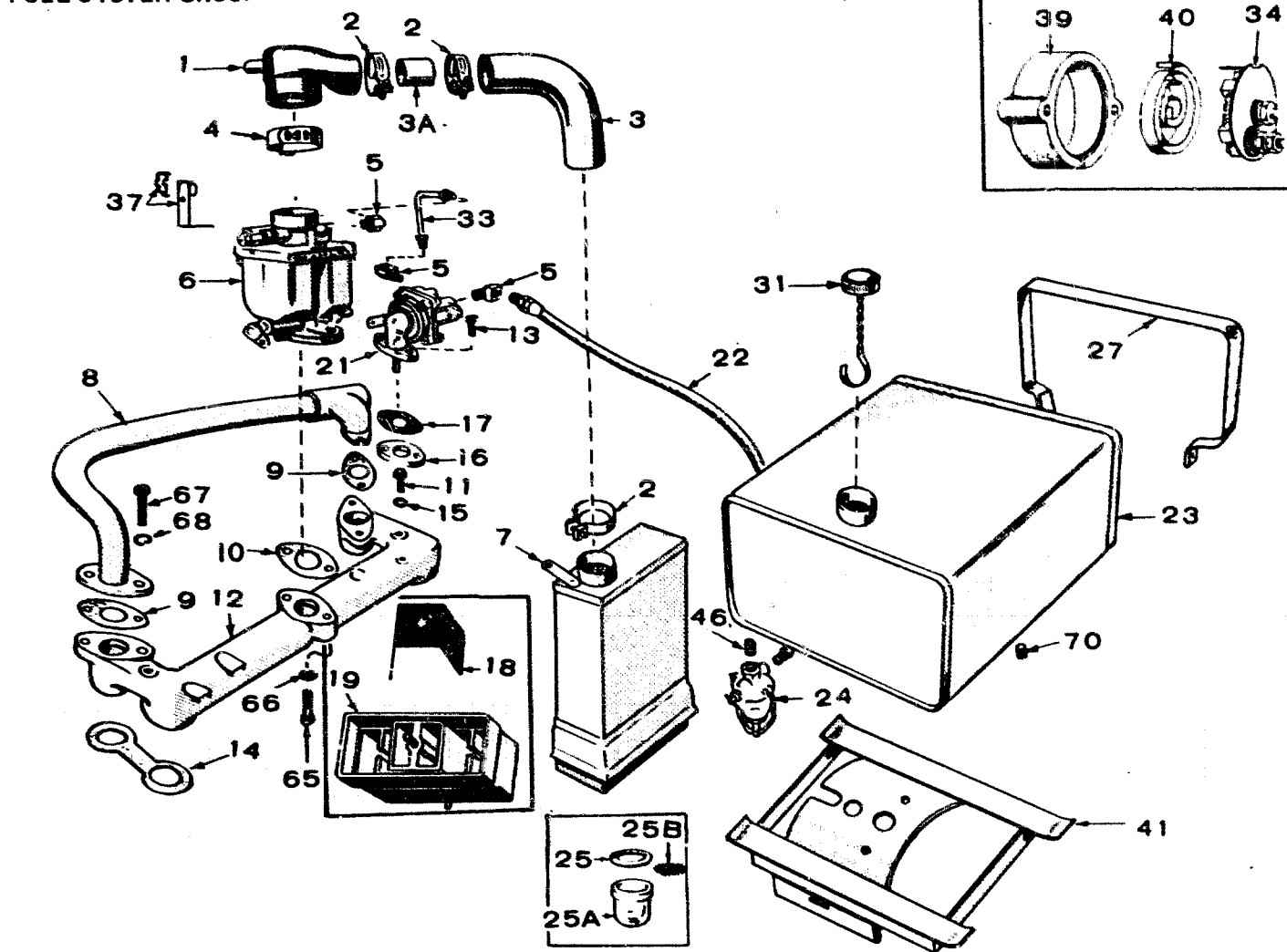
CRANKSHAFT, FLYWHEEL, CAMSHAFT AND PISTON GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	150A78	1	Ring, Camshaft Center Pin
2	150A612	1	Cup, Governor
3	BALL, FLY - GOVERNOR		
	510P15	10	Key 1, 2, 3, 4, 5, 6, 7
	510P15	5	Key 8, 9, 10
4	SPACER, GOVERNOR FLYBALL		
	150B85	1	Prior to Spec F
	150B1257	1	Begin Spec F
5	150A77	1	Plate Governor Flyball
6	GEAR, CAMSHAFT - TIMING		
	105A30	1	Prior to Spec F
	105A332	1	Begin Spec F
6A	104A32	1	Gear, Crankshaft - Timing
7	105A4	1	Washer, Camshaft Gear Thrust
8	515-1	1	Key, Camshaft Gear Mounting
9	105-140	1	Camshaft (Incl. Center Pin)
10	150A75	1	Pin, Camshaft Center
11	PISTON AND PIN (INCLUDES RETAINING RINGS)		
	112-71	2	Standard
	112-71-05	2	.005" Oversize
	112-71-10	2	.010" Oversize
	112-71-20	2	.020" Oversize
	112-71-30	2	.030" Oversize
	112-71-40	2	.040" Oversize
12	PIN, PISTON		
	112A69	2	Standard
	112A3	4	Ring, Piston Pin Retainer
14	ROD, CONNECTING		
	114C98	2	Standard
	114C98-10	2	.010" Undersize
	114C98-20	2	.020" Undersize
	114C98-30	2	.030" Undersize
15	RING SET, PISTON		
	113A152	2	Standard
	113A152-05	2	.005" Oversize
	113A152-10	2	.010" Oversize
	113A152-20	2	.020" Oversize
	113A152-30	2	.030" Oversize
	113A152-40	2	.040" Oversize
16	110A284	4	Screw, Connecting Rod Cap

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	114A59	4	Washer, Lock - Connecting Rod Cap Screw
19	WASHER, WHEEL MOUNTING		
	526A17	1	Key 3, 4, 5, 7 (Also Key 1, 2, 5, 6, 8, 9 Prior to Spec D)
	526A128	1	Key 10
20	515-2	1	Key, Wheel Mounting
21	SCREW, WHEEL MOUNTING		
	104A170	1	Key 1, 2, 3, 4, 5, 6, 7, 8, 9
	104A369	1	Key 10
	SHEAVE, ROPE		
22	160B222	1	Key 1, 2, 5, 6, 8, 9 Prior to Spec D
23	192B291	1	Pressure Cooled Plants Key 3, 4, 7, 10 Prior to Spec D
24	192B272	1	Vacu-Flo Cooled Plants Key 3, 4, 7
25	192B308	1	Pressure Cooled Plants, Begin Spec D
	FLYWHEEL		
26	160D202	1	Key 1, 2, 5, 6, 8, 9 Prior to Spec D
27	160D650	1	Key 1, 2, 5, 6, 8, 9 Begin Spec D
	134D591	1	Pressure Cooled Plants, Key 3, 4, 7
28	104K691	1	Vacu-Flo Cooled Plants, Key 3, 4, 7 Prior to Serial 745278
28	104D499	1	Vacu-Flo Cooled Plants, Key 3, 4, 7 Begin Serial 745278
30	134B675	1	Key 10 (Includes Ring Gear)
31	518-14	1	Lock, Crankshaft Gear Washer
32	104A43	1	Washer, Crankshaft Gear Retainer
34	104D578	1	Crankshaft
35	515-1	1	Key, Crankshaft Gear Mounting
36	192A83	1	Rope, Manual Starting, Key 3, 4, 7, 10
37	134B565	1	Wheel, Blower (Vacu-Flo Cooled Plants) Key 3, 4, 7
38	192B296	1	Backplate, Rope Sheave, Key 10
39	134C673	1	Gear, Ring, Flywheel, Key 10
40	850-55	1	Washer, Lock (7/16)

FUEL SYSTEM GROUP

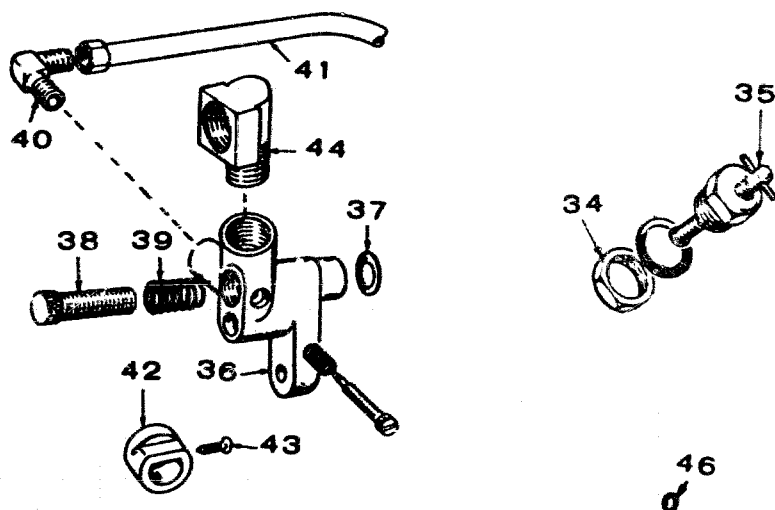
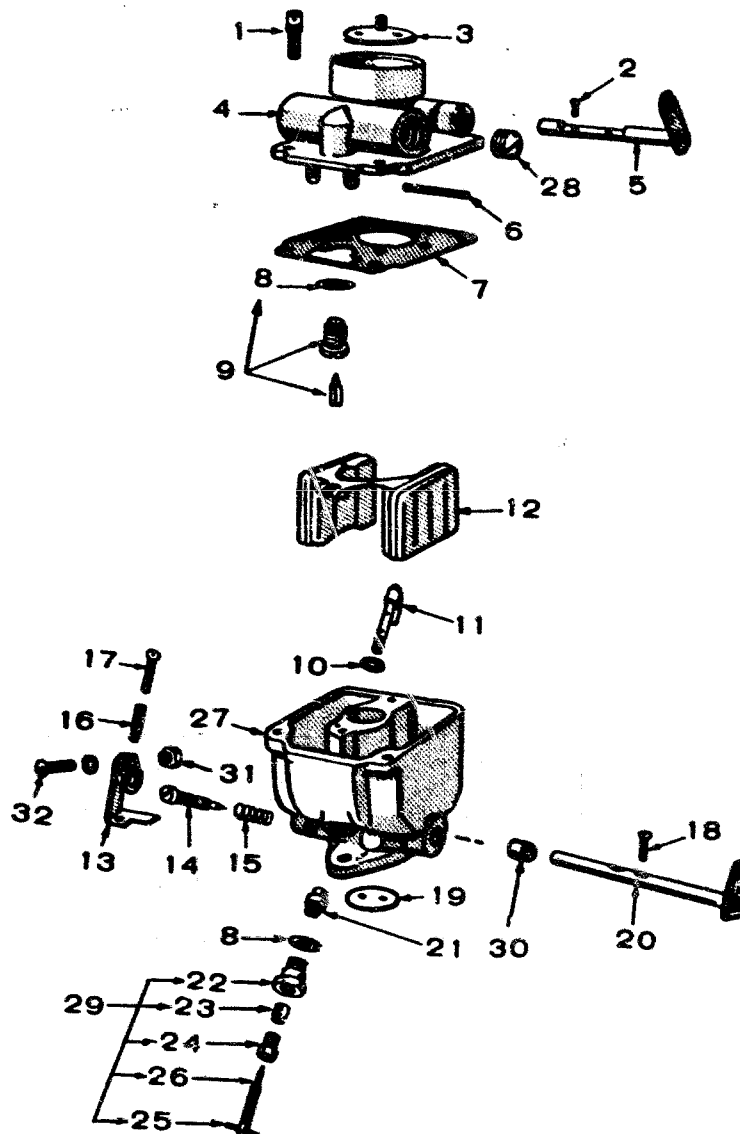


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	145B80	1	Inlet, Carburetor Air
2	503-280	3	Clamp, Air Cleaner Hose
3	503A480	1	Hose, Air Cleaner
3A	140A211	1	Sleeve, Air Cleaner Hose
4	503-107	1	Clamp, Air Inlet to Carburetor
5	502-2	3	Elbow (Inverted Male) - (2) Fuel Pump (1) Carburetor
6	*CARBURETOR ASSEMBLY, GASOLINE		
	142A363	1	Manual Choke, Key 1, 2, 5, 6, 8, 9, 10
	142A364	1	Electric Choke, Key 3, 4, 7
6A	*CARBURETOR ASSEMBLY, GAS-GASOLINE (Optional)		
	142C367	1	Manual Choke, Key 1, 2, 5, 6, 8, 9, 10
	142C366	1	Electric Choke, Key 3, 4, 7
7	140C399	1	Cleaner, Air
8	MANIFOLD, EXHAUST, PRESSURE COOLED PLANTS		
	154C526	1	Key 1, 2, 3, 4, 5, 6, 7, 8, 9
	154C451	1	Key 10 - Prior to Spec J
	154C876	1	Key 10 - Begin Spec J
8A	154C377	1	Manifold, Exhaust, Vacu-Flo Cooled Plants, Key 3, 4, 7
8B	505-138	1	Coupling (Reducer), Exhaust Manifold, Vacu-Flo Cooled Plants, Key 3, 4, 7
9	154A360	2	Gasket, Exhaust Manifold or Muffler Mounting
10	141A78	1	Gasket, Carburetor Mounting
11	800-54	2	Screw (3/8-16 x 2") - Intake Manifold Mounting
12	MANIFOLD, INTAKE		
	154A383	1	Key 1, 2, 3, 4, 5, 6, 7
	154A356	1	Key 8, 9, 10
13	800-9	2	Screw (1/4-20 x 1-1/4") - Fuel Pump Mounting
14	154A13	2	Gasket, Intake Manifold
15	850-50	2	Washer, Lock (3/8)
16	149A45	1	Spacer, Fuel Pump
17	149A3	2	Gasket, Fuel Pump & Spacer Mounting
18	140A68	1	Screen, Air Cleaner
19	140K403	1	Cup Assembly, Air Cleaner, Includes Screen
21	149D693	1	Pump, Fuel
22	501B5	1	Line, Fuel Filter to Fuel Pump (18-1/2") Key 1, 2, 3, 4, 5, 6, 7, 9, 10
	TANK, FUEL		
23	159C546	1	Key 2, 6 (4 Gal.) Mounted
23A	159C558	1	Key 8 (6 Gal.) Mounted
23B	415A126	1	Key 1, 3, 4, 5, 7, 9, 10 (5 Gal.) Separate (Optional)
24	149B79	1	Filter, Fuel, Key 1, 2, 3, 4, 5, 6, 7, 9, 10
25	149-149	1	Gasket, Fuel Filter Bowl, Key 1, 2, 3, 4, 5, 6, 7, 9, 10
25A	149-150	1	Bowl, Fuel Filter, Key 1, 2, 3, 4, 5, 6, 7, 9, 10
25B	149-202	1	Screen, Fuel Filter
26	149A616	1	Bracket, Fuel Filter, Key 1, 3, 4, 5, 7, 9, 10
27	STRAP, FUEL TANK MOUNTING		
	159A537	2	Key 2, 6
	159A588	2	Key 8
29	504A13	1	Valve, Fuel Tank Shut-off, Key 1, 3, 4, 5, 7, 9, 10 (Opt.)
31	159B20	1	Cap, Fuel Tank, Key 2, 6, 8
32	LINE, FUEL, FLEXIBLE TANK TO UNIT (Optional)		
	501A7	1	24"
	501A9	1	36"
	501A27	1	48"
33	149A611	1	Line, Fuel Pump to Carburetor
34	153A113	1	Cover, Electric Choke, Key 3, 4, 7

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
37	153-263	1	Bracket & Clip, Choke, Key 1, 2, 5, 6, 8, 9
38	153B97	1	Choke, Manual, Key 1, 2, 5, 6, 8, 9
39	153-440	1	Bracket, Electric Choke, Key 3, 4, 7
40	153A17	1	Element, Choke Bi-Metal, Key 3, 4, 7
41	159D531	1	Bracket, Fuel Tank Mounting, Key 2, 6
44	502-20	1	Elbow, Street, Filter Bracket, Key 1, 3, 4, 5, 7, 9, 10
46	NIPPLE (1/8 x 3/4") BRASS		
	502-46	1	Bracket to Filter Inlet, Key 1, 3, 4, 5, 7, 9, 10
	502-46	1	Tank to Filter Inlet, Key 2, 6
47	153A227	1	Linkage, Choke, Key 10
48	152A155	1	Swivel, Choke Linkage, Key 10
49	153A223	1	Choke, Key 10
50	153A222	1	Bracket, Choke, Key 10
51	148A428	1	Regulator, Ensign, Gas (Opt.) Plants With Gas-Gasoline Carburetor
52	505-21	1	Bushing, Reducer (3/4 x 1/2") Ensign Reg. Outlet (Optional)
53	503-315	1	Hose, Regulator to Carburetor (Optional)
54	503-32	2	Clamp, Hose (Optional)
55	148A107	1	Vent (Optional)
56	PIPE, FUEL (OPTIONAL)		
	148B633	1	Pressure Cooled Plants
	148A147	1	Vacu-Flo Cooled Plants
57	148C311	1	Regulator, Garretson (Optional)
58	505-17	1	Bushing, Reducer 3/8 x 1/4" (Optional)
59	505-38	1	Elbow, 1/4" (Optional)
60	505-57	1	Plug, Pipe 1/8" (Optional)
61	505-99	1	Nipple, 1/4 x 7/8" (Optional)
63	505-302	1	Nipple, Half (Optional)
64	415A124	1	Cap, Rain, Dome Type Tank, Key 1, 3, 4, 5, 7, 9, 10
65	800-9	2	Screw (1/4-20 x 1-1/2") - Carburetor Mounting
66	850-40	2	Washer, Lock (1/4")
67	800-29	4	Screw (5/16-18 x 1-1/8") - Manifold Mounting
68	526-122	4	Washer, Flat (5/16")
69	415P313	1	Cap, Fuel Tank
70	505-57	2	Plug, Tank Drain, Key 2, 6
	505-8	1	Plug, Pipe, Ensign Gas Reg. (Optional)
	149A117	1	Elbow & Screen Assembly (Tank Outlet), Key 8
	332-52	1	Clip, Fuel Line, Key 2, 6, 8
	149K526	1	Repair Kit, Fuel Pump
	142K371	1	Repair Kit, Carburetor
	142-33	1	Gasket Kit, Carburetor
	148-300	1	Repair Kit, Gas Regulator (Ensign Model F)
	148-522	1	Repair Kit, Gas Regulator (Ensign Model F1)
	148-390	1	Repair Kit, Gas Regulator (Garretson)
	148K609	1	Conversion Kit, Gas-Gasoline (Accessory), Key 1, 2, 5, 6, 8, 9
	148K610	1	Conversion Kit, Gas-Gasoline (Accessory), Key 3, 4, 7
	148K617	1	Conversion Kit, Gas Only

* - See separate groups for component parts.

CARBURETOR PARTS GROUP



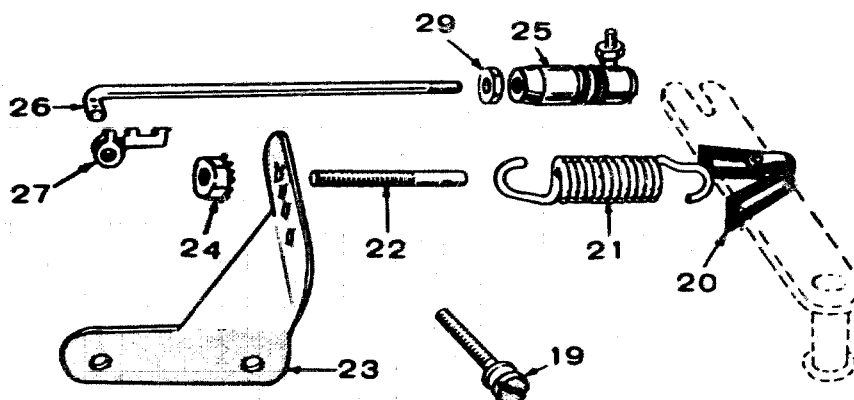
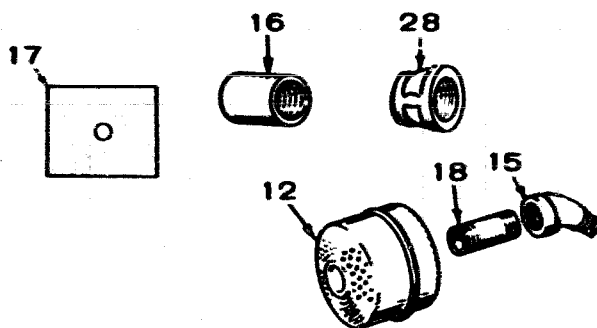
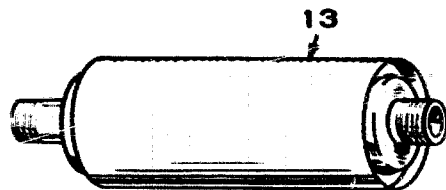
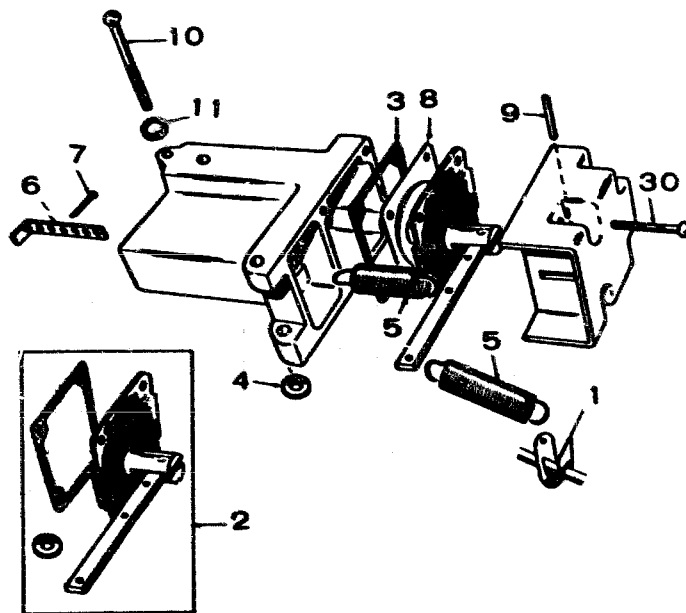
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CARBURETOR, GASOLINE		
	142A363	1	Key 1, 2, 5, 6, 8, 9, 10
	142A364	1	Key 3, 4, 7
	CARBURETOR, GAS-GASOLINE (Optional)		
	142C367	1	Key 1, 2, 5, 6, 8, 9, 10
	142C366	1	Key 3, 4, 7
1	SCREW, BOWL COVER		
	815-103	1	#10-24 x 1/2"
	815-109	2	#10-24 x 5/8"
2	815-91	2	**Screw, Choke Fly (#4-40 x 3/16")
3	FLY, CHOKE		
	142-55	1	Key 1, 2, 5, 6, 8, 9, 10
	142-37	1	Key 3, 4, 7, 11
4	142-205	1	Sleeve Assembly, Choke (Cover)
5	SHAFT ASSEMBLY, CHOKE		
	142-217	1	Key 1, 2, 5, 6, 8, 9, 10
	142-183	1	Key 3, 4, 7
6	142-39	1	**Shaft, Float
7	142-31	1	*Gasket, Body to Bowl
8	148A17	2	*Gasket, (1) Float Valve Seat, (1) Main Adj. Needle Retainer
9	142-49	1	**Valve & Seat Assembly
10	142-32	1	*Gasket, Nozzle
11	142-285	1	Nozzle Assembly
12	142-361	1	Float & Lever Assembly, (Gasoline Models)
13	145A8	1	Lever, Idle Stop
14	142-40	1	**Needle, Idle Adjusting (2 on Gas-Gasoline)
15	142-282	1	Spring, Idle Needle Adjusting (2 on Gas-Gasoline)
16	142A35	1	Spring, Throttle Stop Adjusting Screw
17	812-63	1	Screw, Throttle Stop Adjusting (#6-32 x 1/2")
18	815-72	2	**Screw, Throttle Fly (#4-40 x 1/4")
19	142-369	1	Fly, Throttle
20	142-368	1	**Shaft Assembly, Throttle
21	142-370	1	Nut & Jet, Nozzle
22	142-46	1	Retainer, Main Adj. Needle

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	142-206	1	*Packing, Main Adj. Needle
24	142-45	1	Retainer, Main Adj. Needle Packing
25	516A27	1	Pin, Main Adjusting Needle
26	142A41	1	**Needle, Main Adjusting
27		1	Body Assy. (Not Sold Separate)
28	505-53	1	Plug, Gas Inlet
29	142-42	1	Needle Assembly (Includes Packing, Nut & Retainer)
30	142-343	2	Bushing, Throttle Shaft
31	870-53	1	Nut, Throttle Stop
32	813-102	1	Screw, Throttle Stop Clamp
34	148A38	1	Nut, Hex (3/8-32) Float Lock Ret. (Gas-Gasoline Models)
35	148A135	1	Lock Assembly, Float (Gas-Gasoline Models)
36	148B126	1	Adapter, Carburetor (Gas-Gasoline Models)
37	148A22	1	Gasket, Adapter Mounting (Gas-Gasoline Models)
38	148A131	1	Screw, Adapter Adjusting (Gas-Gasoline Models)
39	148A10	1	Spring, Adapter Adjusting Screw (Gas-Gasoline Models)
40	502-34	1	Elbow, Idle Line to Adapter (Gas-Gasoline Models)
41	149A30	1	Line, Idle Fuel (Gas-Gasoline Models)
42	148A6	1	Lock, Choke (Gas-Gasoline Models) Key 3, 4, 7
43	518-75	1	Screw, Choke Lock (Gas-Gasoline Models) Key 3, 4, 7
44	502-74	1	Elbow, Inverted, Adapter (Gas-Gasoline Models)
46	509-91	1	Seal, "O" Ring
	142-33	1	**Gasket Kit, Carburetor (Include Parts Marked *)
	142K371	1	Repair Kit, Carburetor (Include Parts Marked **)

* Parts contained in Gasket Kit #142-33.

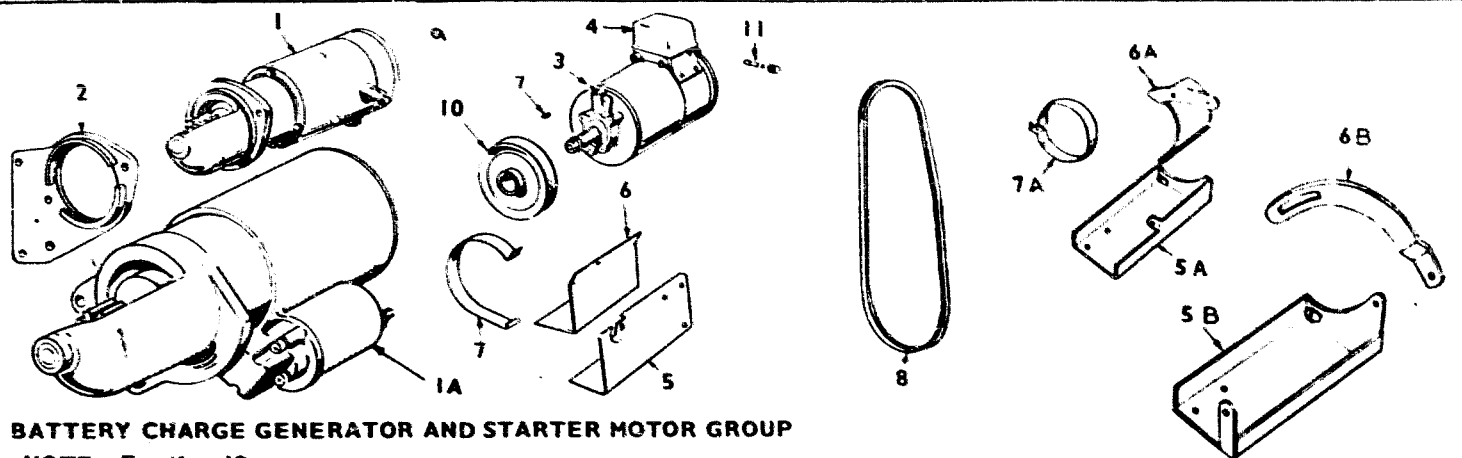
** Parts contained in Repair Kit #142K371.

VACUUM SPEED BOOSTER, GOVERNOR, AND MUFFLER GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	150K433	1	Kit, Vacuum Speed Booster Replacement (includes Ext. Spring & Mtg. Gasket)
1	150A430	1	Bracket, Spring to Governor Lin
2	150K434	1	Kit, Diaphragm Replacement (Includes Gaskets)
3	150A668	1	Gasket, Diaphragm Plate
4	150A425	1	Gasket, Booster to Manifold
5	150A366	2	Spring, Internal & External
6	150A376	1	Bracket, Internal Spring Adj.
7	516-39	1	Pin, Cotter (3/32 x 5/8") Adj. Bracket
8	150A666	1	Plate, Diaphragm
9	516A85	1	Pin (3/32 x 3/4") Diaphragm Lever Pivot
10	813-110	2	Screw (10-32 x 2") - Vacuum Booster Mounting
11	853-8	2	Washer, Lock (#10)
12	155B484	1	Muffler, Exhaust, Key 2, 6, 8
13	155B76	1	Muffler, Exhaust, Key 1, 3, 4, 5, 9, 10
14	155B491	1	Tubing, Flexible Exhaust (36")
15	505-333	1	Elbow, Street, Exhaust Outlet, Key 2, 6, 8
16	505-30	1	Coupling (Pipe 1") Exhaust, Key 1, 3, 4, 5, 7, 9, 10
17	155A295	1	Plate, Exhaust Wall, Key 3, 4, 7, 10
18	505-4	1	Nipple, Exhaust (1-1/2 x Close) Key 2, 6, 8
19	150A136	1	Screw, Governor Sensitivity Adj. Prior to Spec D
20	150A678	1	Clip, Governor Sensitivity Adj.
21	150A98	1	Spring, Governor
22	150A96	1	Stud, Governor Speed Adjustmen
23	150A40	1	Bracket, Governor Spring
24	870-131	1	Nut, Keps, Governor Speed Adj.
25	150A639	1	Joint, Ball
26	150A629	1	Link, Governor Arm to Carbureto
			(Note: If old link fastens by a cotter pin, use Clip #518-6)
27	518-6	1	Clip, Rod End, Begin Spec C
28	505-138	1	Coupling, Reducer (1-1/4" x 1), Utility Models
29	870-53	1	Nut, Hex (10-32)
30	815-148	4	Screw (8-32 x 7/8") - Cover Mounting

NOTE: Reference 1 through 11 for Key 1, 2, 3, 4, 5, 6, 7.



BATTERY CHARGE GENERATOR AND STARTER MOTOR GROUP

NOTE: For Key 10.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
*MOTOR ASSEMBLY, STARTING			
1	191C150	1	Bendix Drive - Prior to Spec J
1	191C511	1	Bendix Drive - Begin Spec J
1A	191D790	1	Solenoid Shift - Optional Equipment
2	FLANGE, STARTER MOUNTING		
	191C129	1	Prior to Spec J
	191C508	1	Begin Spec J
3	*GENERATOR ASSEMBLY, CHARGE		
	191C159	1	Prior to Spec F - Includes Voltage Regulator (Less Pulley)
	191A277	1	Begin Spec F - Includes Pulley & Fan (Less Voltage Regulator)
4	REGULATOR, VOLTAGE		
	191-386	1	Prior to Spec F
	191A278	1	Begin Spec F
5	191C155	1	Bracket, Charge, Generator Mounting - Prior to Spec D
5A	191B240	1	Bracket, Charge Generator Mounting - Spec D Only

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5B	191C279	1	Bracket, Charge Generator Mounting - Begin Spec F
6	191B156	1	Bracket, Charge Generator Adj. - Prior to Spec D
6A	191B239	1	Bracket, Charge Generator Adj. - Spec D Only
6B	191C280	1	Bracket, Generator Adj. - Begin Spec F
BAND, CHARGE GENERATOR MOUNTING			
7	191A157	1	Prior to Spec D
7A	191A242	1	Spec D Models Only
8	511-51	1	Belt, Charge Generator Drive
9	515-105	1	Key, Charge Generator Pulley
10	191A164	1	Pulley, Charge Generator Driven - Prior to Spec F
11	321-94	1	Fuse, 5 Amp. - Prior to Spec F

* See separate group for component parts.

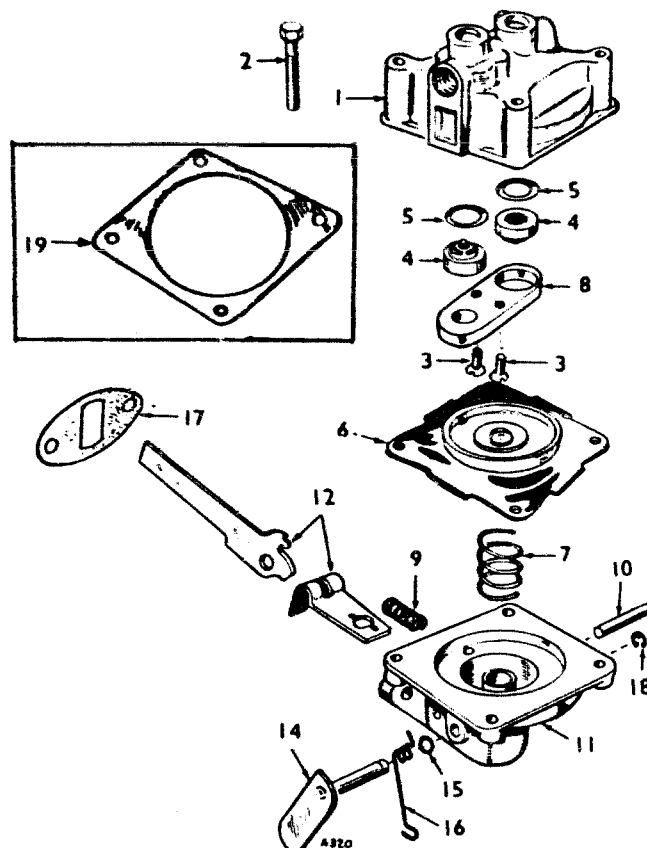
* For generator components, check nameplate and contact nearest dealer.

FUEL PUMP PARTS GROUP

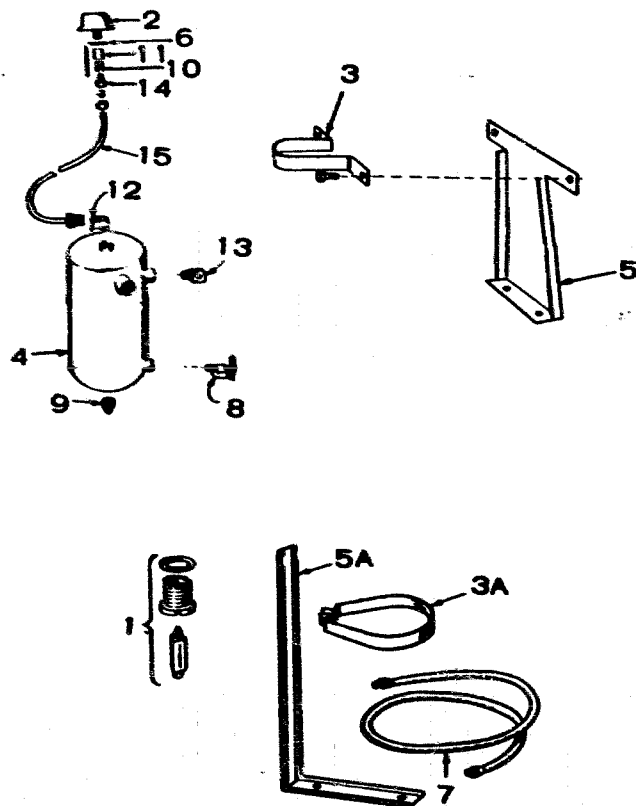
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149D693	1	Pump, Fuel (Illustrated in Fuel System Group)
	149K526	1	Repair Parts Kit (Includes Parts Marked *)
1		1	Body, Not Sold Separately
2	SCREW, MACHINE		
	815-148	2	#8-32 x 7/8"
	815-150	2	#8-32 x 1"
3	815-147	2	Screw, Phillips Self Tapping, #6-32 x 5/8", Valve Retainer
4	149-96	2	*Valve and Cage
5	149A95	2	*Gasket, Valve
6	149A582	1	*Diaphragm Assembly
7	149A672	1	*Spring
8	149A539	1	Retainer, Valve Cage
9	149A675	1	*Spring
10	516A113	1	Pin, Rocker Arm
11		1	Body, Not Sold Separately
12	149-710	1	Link and Arm, Rocker (Only as a Set)
14	149A551	1	Lever, Primer
15	509-65	2	Seal, "O" Ring
16	149A404	1	Spring, Primer Lever
17	149A3	1	*Gasket, Pump Mounting
18	518-129	1	Ring, Retainer, Primer Lever
19	149A858	1	*★Gasket, Diaphragm - Lower Side

* - Parts in Repair Kit.

*★ - Used on some models to prevent air lock



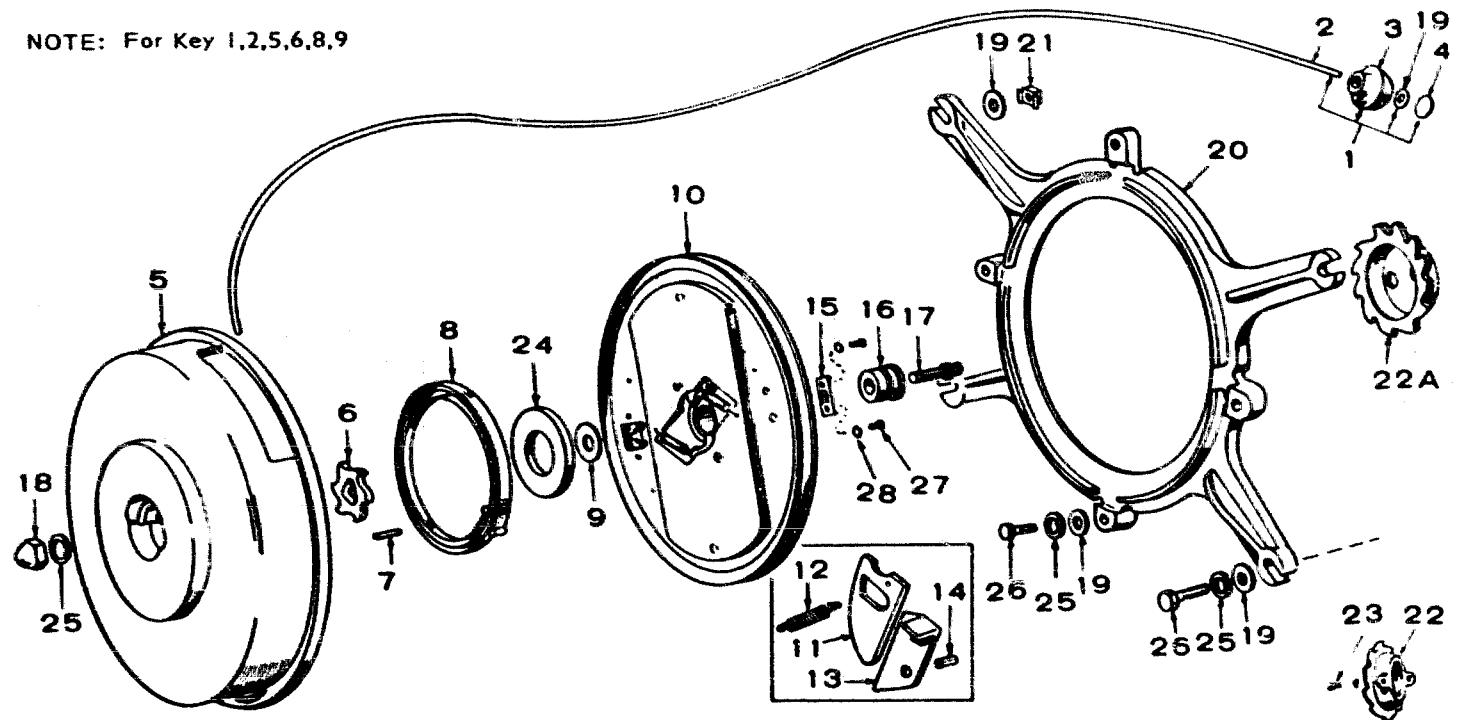
RESERVOIR (DAY) TANK GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	TANK KIT, RESERVOIR (DAY)		
	159K591	1	One Quart
	159K942	1	Two Quart
1	142-356	1	Valve, Fuel, Carburetor Fuel Inlet
2	159-41	1	Cap, Vent
	BAND, TANK MOUNTING		
3	159A121	1	Plants where Mounting Bracket Mounts to Control Box (One Quart)
3A	159A556	1	Plants where Mounting Bracket Mounts Under Generator Foot (One Quart)
3A	159A936	1	Plants where Mounting Bracket Mounts Under Generator Foot (Two Quart)
	TANK, RESERVOIR		
	159B294	1	One Quart
	159B746	1	Two Quart
	BRACKET, RESERVOIR TANK MOUNTING		
5	159B302	1	Mounts to Control Box
5A	159A612	1	Mounts Under Generator Foot
6	415A55	1	Bracket, Vent Cap
	LINE, FUEL, FLEXIBLE		
7	501B5	1	18" Long
	501A7	1	24" Long
8	504-86	1	Valve, Shut-off
9	505-57	1	Plug, Tank Drain
10	505-16	1	Bushing, Reducer (3/8 x 1/8)
11	505-28	1	Coupling
12	502-20	1	Elbow, Street (90°)
13	502-24	1	Elbow (90°)
14	502-116	1	Connector
15	159A345	1	Tubing, Copper (5/16" x 12')

READI-PULL STARTER GROUP

NOTE: For Key 1,2,5,6,8,9

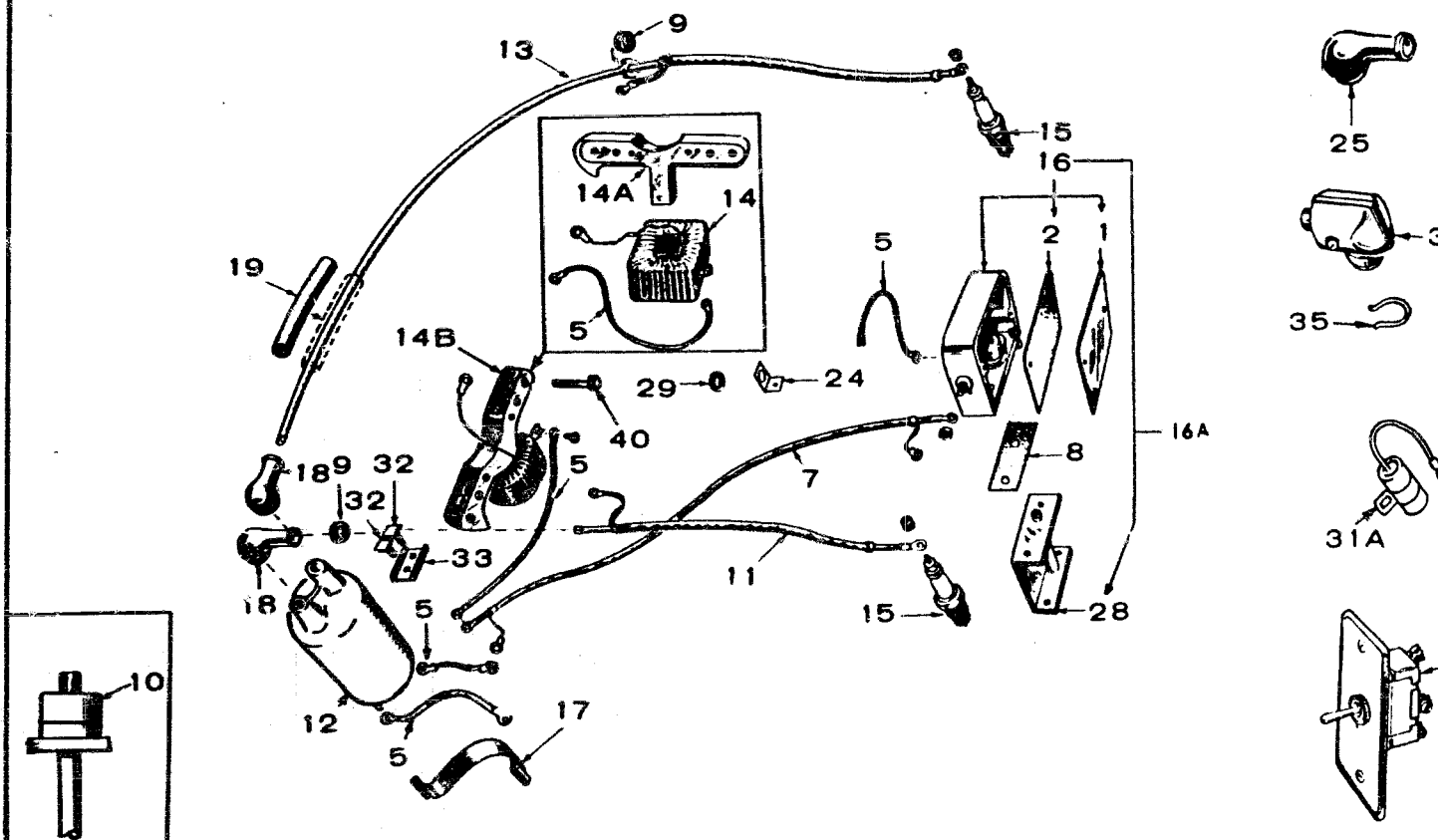
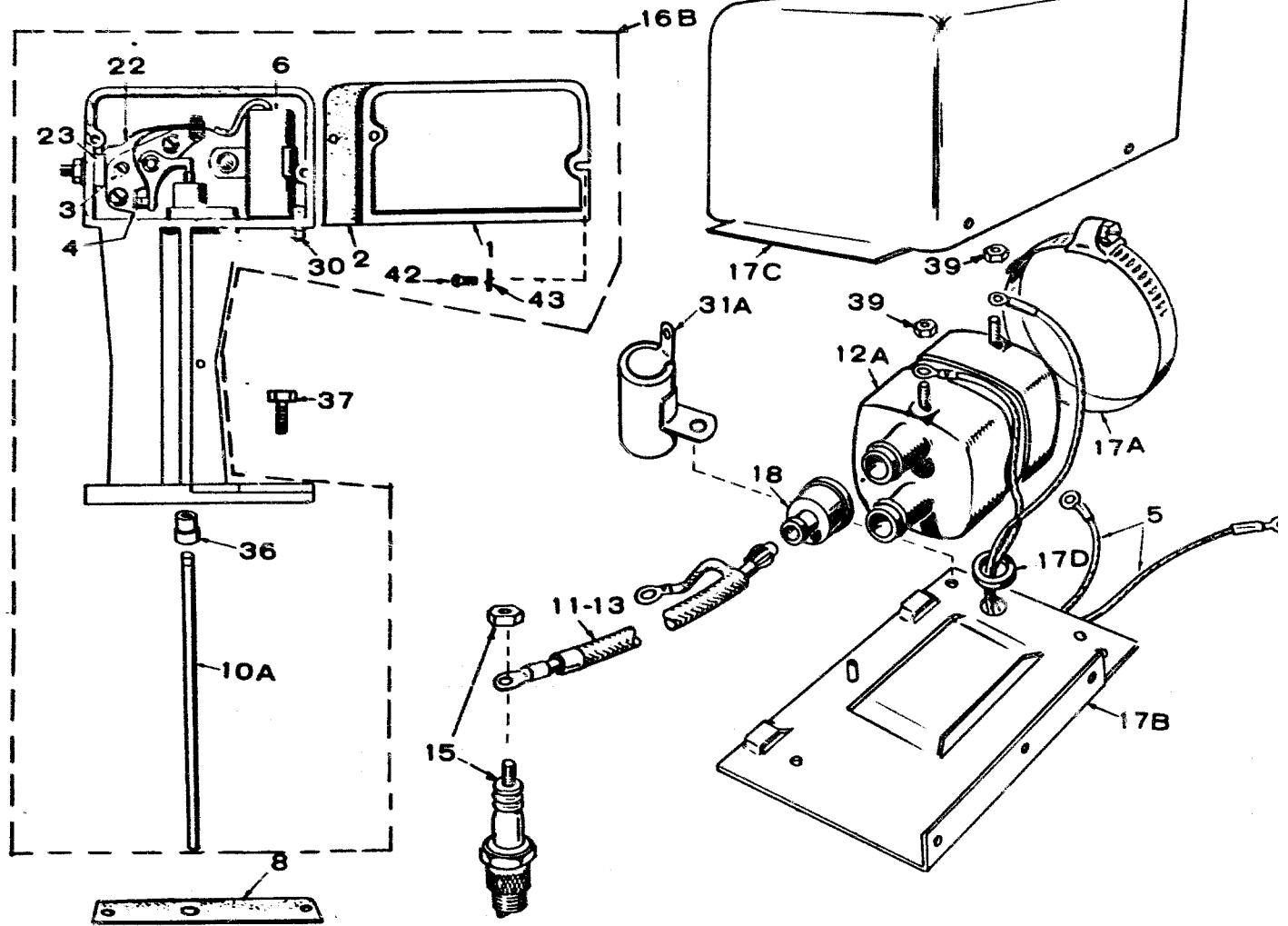


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
STARTER KIT - COMPLETE - INCLUDES MOUNTING RING & RATCHET WHEEL			
	192K215	1	Prior to Spec D
	192K225	1	Begin Spec D
1	192A45	1	Rope & Grip Assembly
2	192A43	1	Rope, Starter, Less Grip (83")
3	192A44	1	Grip, Starter Rope - Rubber
4	517A25	1	Plug, Starter Rope Grip
5	192C152	1	Cover, Starter
6	192A153	1	Wheel, Cog-Anti-Backlash
7	516-138	1	Pin (3/16 x 5/8") Recoil Spring
8	192A39	1	Spring, Recoil
9	526A123	1	Washer, Thrust (Sheave Bushing to Cover)
10	192B180	1	Sheave, Rope (Includes Parts Marked *)
11	192A172	2	*Pawl
12	192A165	2	*Spring, Pawl
13	192A168	2	*Arm, Ratchet
14	516-110	4	*Pin, Roll (5/16 x 1/2") - (2) Ratchet Arm, (2) Pawl
15	192A167	1	*Clamp, Rope
16	192A163	1	Bearing, Sheave Hub (Bronze)
17	192A323	1	Capscrew (3/8-16 x 1-1/2")
18	870-138	1	Nut, Bushing to Cover Screw
19	WASHER, FLAT		
	526A180	4	Starter to Mounting Ring
	526A169	1	Starter Rope Grip
	526-130	4	Starter Ring to Blower Housing (1/16" Thick)
	526-158	4	Starter Ring to Blower Housing (1/8" Thick)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	192C186	1	Ring, Starter to Blower Housing Mounting
21	870-110	4	Nut, Speed Grip, Starter Ring to Blower Housing
WHEEL, RATCHET			
22	192A170	1	Prior to Spec D
22A	192B309	1	Begin Spec D
23	192A218	2	Capscrew (Socket Hd.) Ratchet Wheel to Flywheel - Prior to Spec D
24	526-168	1	Washer, Recoil Spring Retainer (Later Model Starters Only)
25	WASHER, LOCK		
	850-50	1	Cover Nut
	850-40	4	Starter Ring to Blower Housing
	850-40	4	Starter to Mounting Ring
26	SCREW, HEX CAP		
	800-7	4	Starter Ring to Blower Housing
	815-137	4	Starter to Mounting Ring
27	815-137	2	*Screw, Hex Cap - Rope Clamp Mounting
28	526-15	2	*Washer, Flat - Rope Clamp Mounting

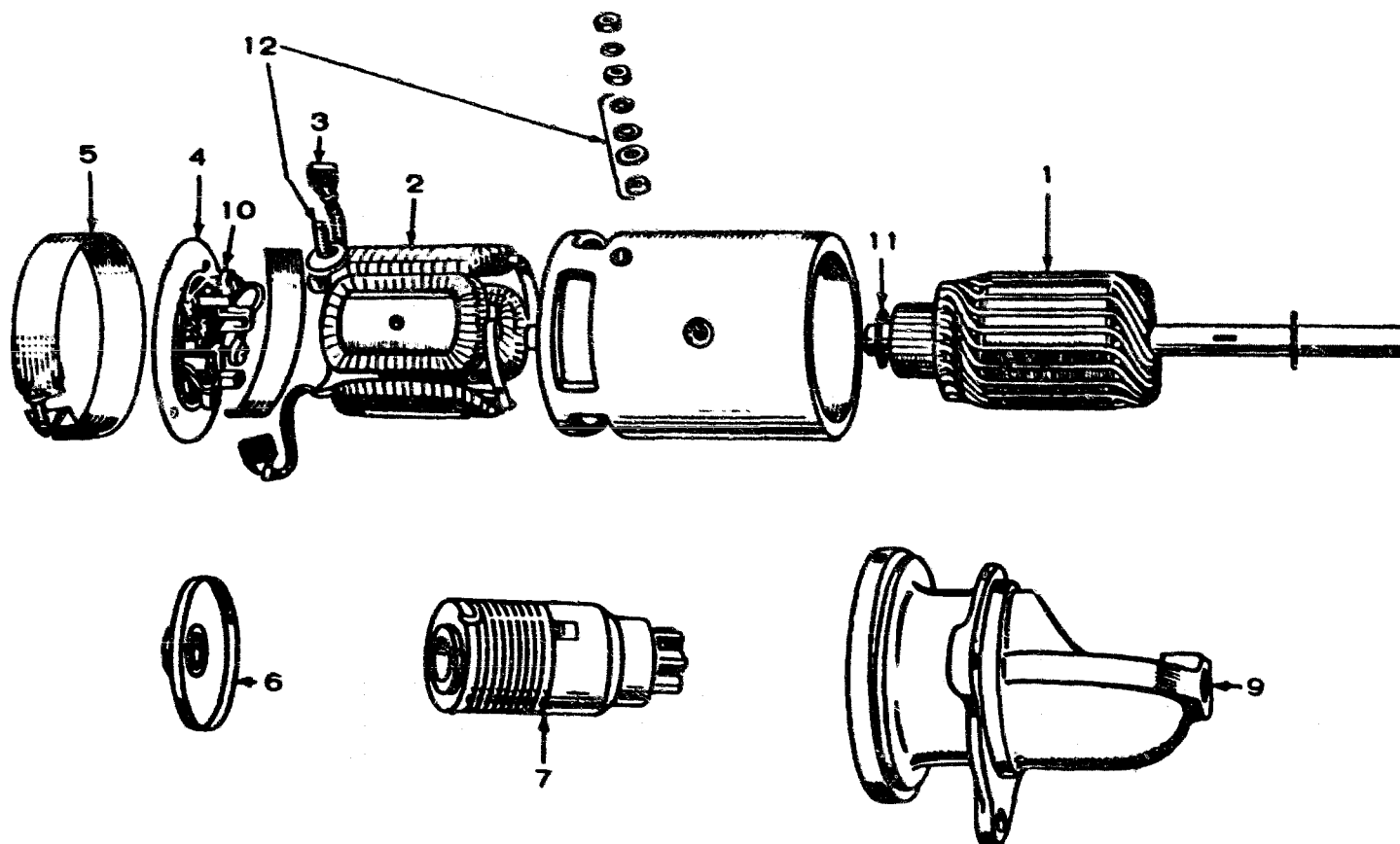
* - Included in #192B180 Rope Sheave Assembly.

IGNITION GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	160A930	1	Cover, Breaker Box
2	160A150	1	Gasket, Breaker Box Cover
3	160A75	1	Pivot, Breaker Arm
4	160A2	1	Point Set, Breaker
5	334-28	1	Lead (4ft. Piece of Bulk Wire)
6	312A69	1	Condenser, Breaker Box (.3 Mfd.)
7	336A507	1	Lead, Breaker Box to Terminal Block (Shielded) Prior to Spec J
8	GASKET 160A43 160A43	1 1	Breaker Box Mounting Breaker Box Spacer Mounting, Key 3, 4, 7, 10 Prior to Spec J
9	508A5	2	Grommet, Spark Plug Cable (In Blower Housing) Prior to Spec J
10	PLUNGER ASSEMBLY, BREAKER (Includes Guide) 160A262 160A268 160A262 160A723	1 1 1 1	Key 1, 2, 5, 6, 8, 9 Prior to Spec J Key 3, 4, 7, 10 Prior to Spec J All Gas & Gas-Gasoline Plts. Plunger, Breaker, Begin Spec J
11	CABLE, SPARK PLUG (SHIELDED) RIGHT 167A1112 167A1467	1 1	9" (Repl. 167A1307) Prior to Spec J 13", Begin Spec J
12	160C792	1	Coil, Ignition Prior to Spec J
12A	166C346	1	Coil, Ignition, Begin Spec J
13	CABLE, SPARK PLUG (SHIELDED) LEFT 167A1289 167A1468	1 1	23", Prior to Spec J 21-1/2", Begin Spec J
14	160A282	1	Coil, Magneto Stator, Key 1, 2, 5, 6, 8, 9
14A	160A281	1	Pole Shoe, Magneto Stator Key 1, 2, 5, 6, 8, 9
14B	160K722	1	Stator Assembly, Magneto (Incl. Coil & Pole Shoe) Key 1, 2, 5, 6, 8, 9
15	167-241	2	Plug, Spark
16	160A257	1	Box Assy., Ignition Breaker (Complete) Key 1, 2, 5, 6, 8, 9, Prior to Spec J
16	160A257	1	Box Assy., Ignition Breaker - All Gas & Gas-Gasoline Plants
16A	160A258	1	Box Assy., Ignition Breaker (Complete) Key 3, 4, 7, 10, Prior to Spec J
16B	160A963	1	Box Assy., Ignition Breaker (Complete) Begin Spec J (Except Gas & Gas-Gasoline Plants)
17	160A488	1	Clamp, Ignition Coil, Prior to Spec J
17A	503P514	1	Clamp, Ignition Coil, Begin Spec J
17B	166B393	1	Bracket, Ignition Coil, Begin Spec J

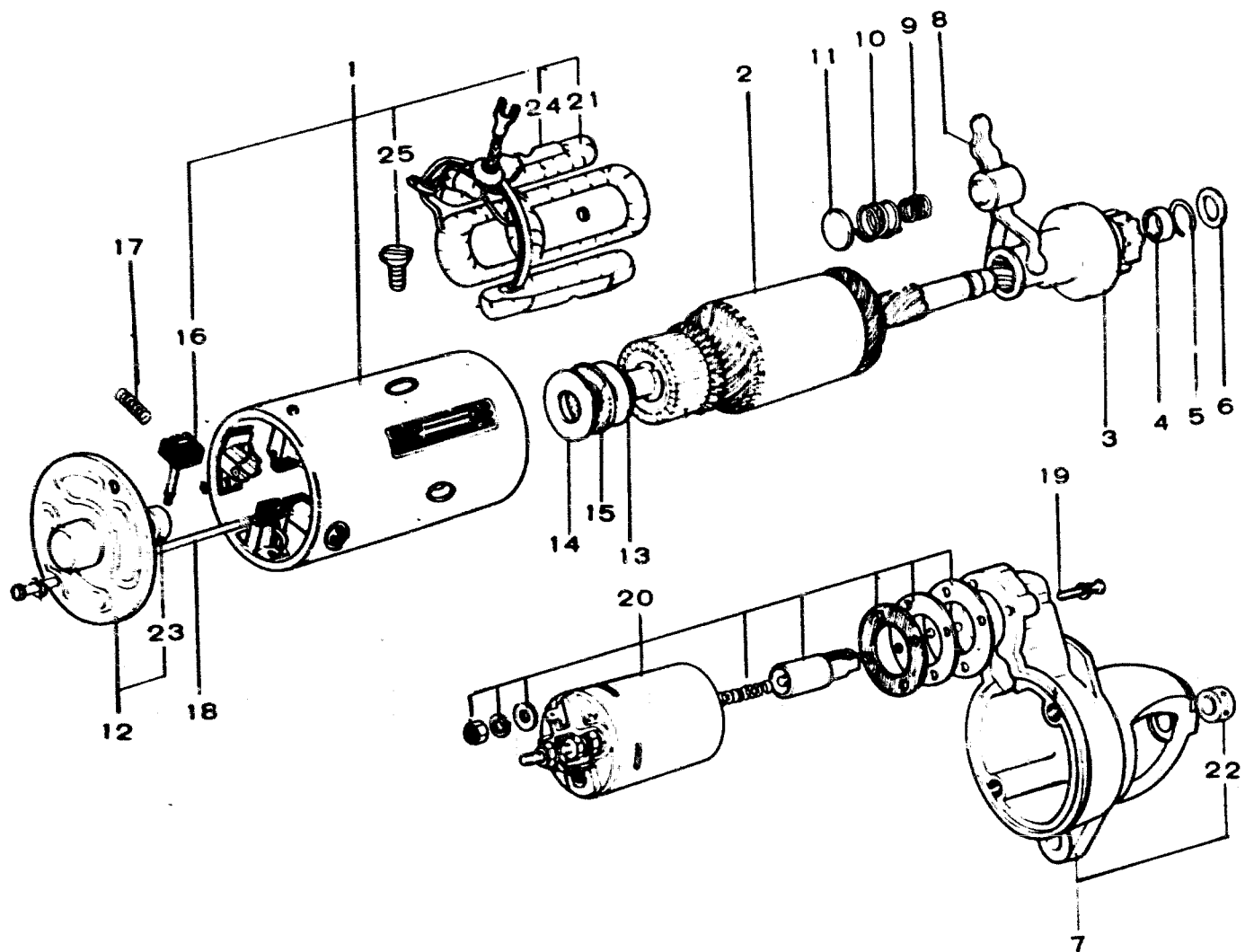
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17C	166C385	1	Cover, Ignition Coil, Begin Spec J
17D	508P114	1	Grommet, Ignition Coil Mounting Bracket, Begin Spec J
18	160A558	2	Nipple, Ignition Coil Rubber
19	503-92	1	Sleeve, Rubber, Spark Plug Lead
22	160A428	1	Strap, Point Set to Breaker Box Terminal Block
23	160A349	1	Block & Terminal Assembly, Breaker Box
24	332A273	1	Clip, Magneto Lead, Key 1, 2, 5, 6, 8, 9
25	166P250	2	Cover, Spark Plug (Optional)
28	160A246	1	Spacer, Breaker Box, Key 3, 4, 7, 10, Prior to Spec J
29	508A2	1	Grommet, Stator Lead, Key 1, 2, 5, 6, 8, 9
30	160A261	1	Wick, Breaker Box
31	308A165	1	Switch, Remote Start-Stop (Optional), Key 3, 4, 7
31A	CONDENSER (.1 MFD.) IGNITION COIL SUPPRESSION, KEY 3, 4, 7, 10 312A58 312A162	1 1 1	Prior to Spec J Begin Spec J
32	332A284	2	Screw, Terminal Block Mounting, On Block Housing, Prior to Spec J
33	332A272	1	Block, Terminal, On Block Housing, Prior to Spec J
34	167A67	2	Shield, Spark Plug (Includes Clamp & Shield)
35	167A64	2	Clamp, Spark Plug Shield
36	160A929	1	Bushing, Breaker Box, Begin Spec J
37	SCREW, BREAKER BOX MOUNTING 815P353 815P357	2 2	Prior to Spec J Begin Spec J
38	160A931	1	Guide, Plunger - Begin Spec J
39	870-53	2	Nut (10-32) - Coil Leads
40	815-193	2	Screw (1/4-20 x 1-3/8"), Stator Mounting Key 1, 2, 5, 6, 8, 9
41	812-59	1	Screw (#6-32 x 1/4") Stator Primary Lead, Key 1, 2, 5, 6, 8, 9
42	812-77	2	Screw (8-32 x 3/8") - Breaker Box Cover Mounting
43	850-25 812-153	2 1	Washer, Lock (#8) Screw (1/4-20 x 1") Ignition Coil, Prior to Spec J
	160C764	1	Bracket, Coil Mounting (Used Only where Coil is on LH Side of Generator (Optional), Prior to Spec J)
	160C763	1	Bracket, Coil Mounting (Used Only where Coil is on RH Side of Generator (Optional), Prior to Spec J)



STARTING MOTOR PARTS GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	MOTOR ASSEMBLY, STARTING		
	191C150	1	Prior to Spec J
	191C511	1	Begin Spec J
1	191-517	1	Armature
2	191-1017	1	Coil Assy. Pkg., Field
3	191-513	1	Brush Set, Service
4	191-1018	1	Head Assy., Commutator End
5		1	Band, Cover (Not Sold Separately)
6	191-1019	1	Bearing Assy., Intermediate
7	191P271	1	Drive Assy., Bendix

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	191-735	1	Bearing, Drive End
10	191-1020	1	Spring, Brush (Set of 4)
11	191-1021	1	Washer Armature Thrust (pkg)
			Use as required.
12	191-1022	1	Stud, Terminal (pkg.)



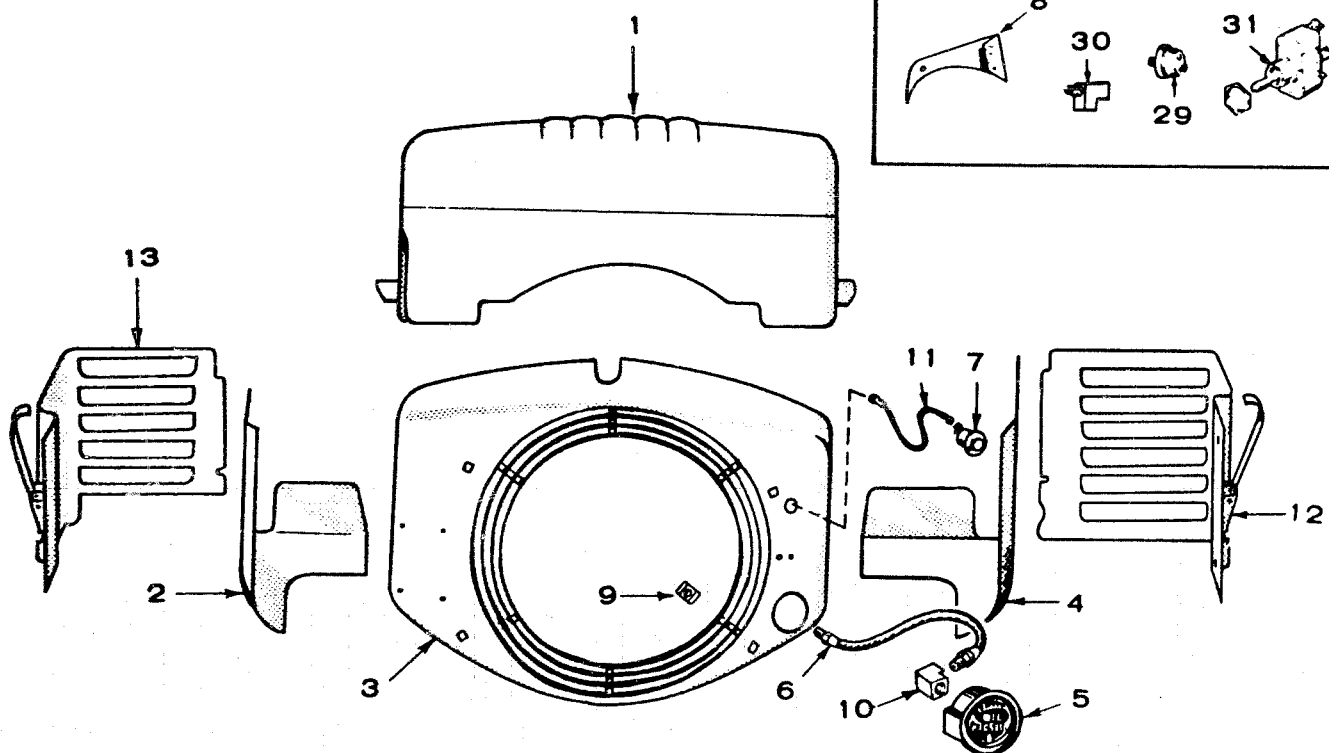
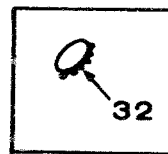
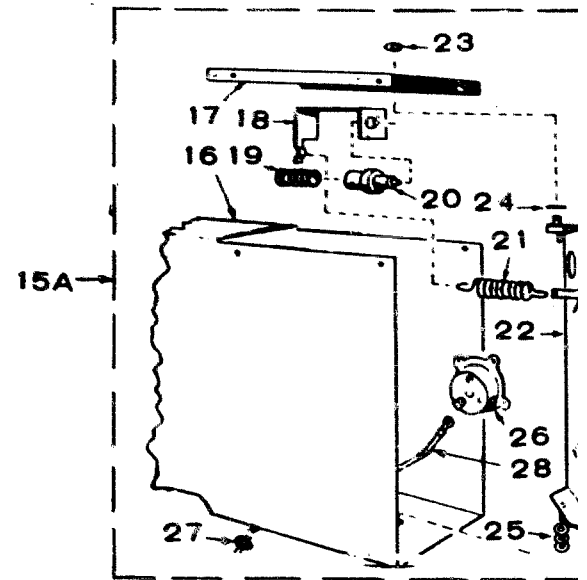
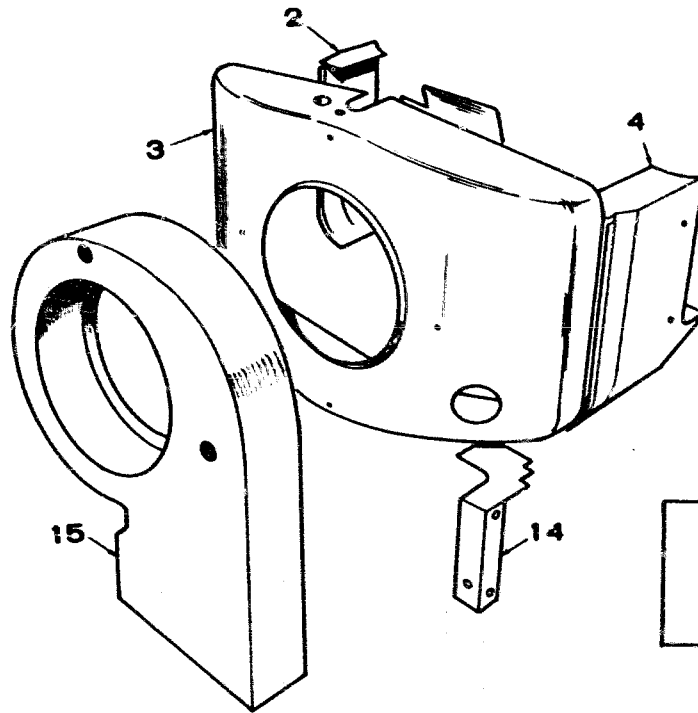
STARTING MOTOR PARTS GROUP—SOLENOID SHIFT (Optional)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191D790	1	Motor Assembly, Starting-Comp.
1	191-806	1	Yoke Assembly (Frame)- Includes Parts Marked *
2	191-743	1	Armature
3	191-744	1	Clutch, Starter
4	191-745	1	Stop, Pinion
5	191-746	1	Ring
6	191-807	1	Washer, Plain
7	191-808	1	Bracket Assembly, Front
8	191-749	1	Lever Assembly
9	191-750	1	Spring, Lever
10	191-751	1	Spring, Lever
11	191-752	1	Holder, Spring
12	191-809	1	Bracket Assembly, Rear
13	191-754	1	Washer, Plain

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	191-755	1	Washer, Plain
15	191-756	1	Washer, Insulator
16	191-757	4	*Brush
17	191-758	4	Spring, Brush
18	191-759	2	Bolt, Through
19	191-760	3	Screw, Machine P.H.
20	191-761	1	Switch Assembly, Solenoid
21	191-762	1	*Coil Assembly, Field
22	191-763	1	Bearing, Front
23	191-764	1	Bearing, Rear
24	191-765	4	*Pole Shoe
25	191-766	4	*Screw, Pan Head

* Included in Yoke Assembly.

AIR HOUSING AND OPTIONAL AIR SHUTTER GROUP

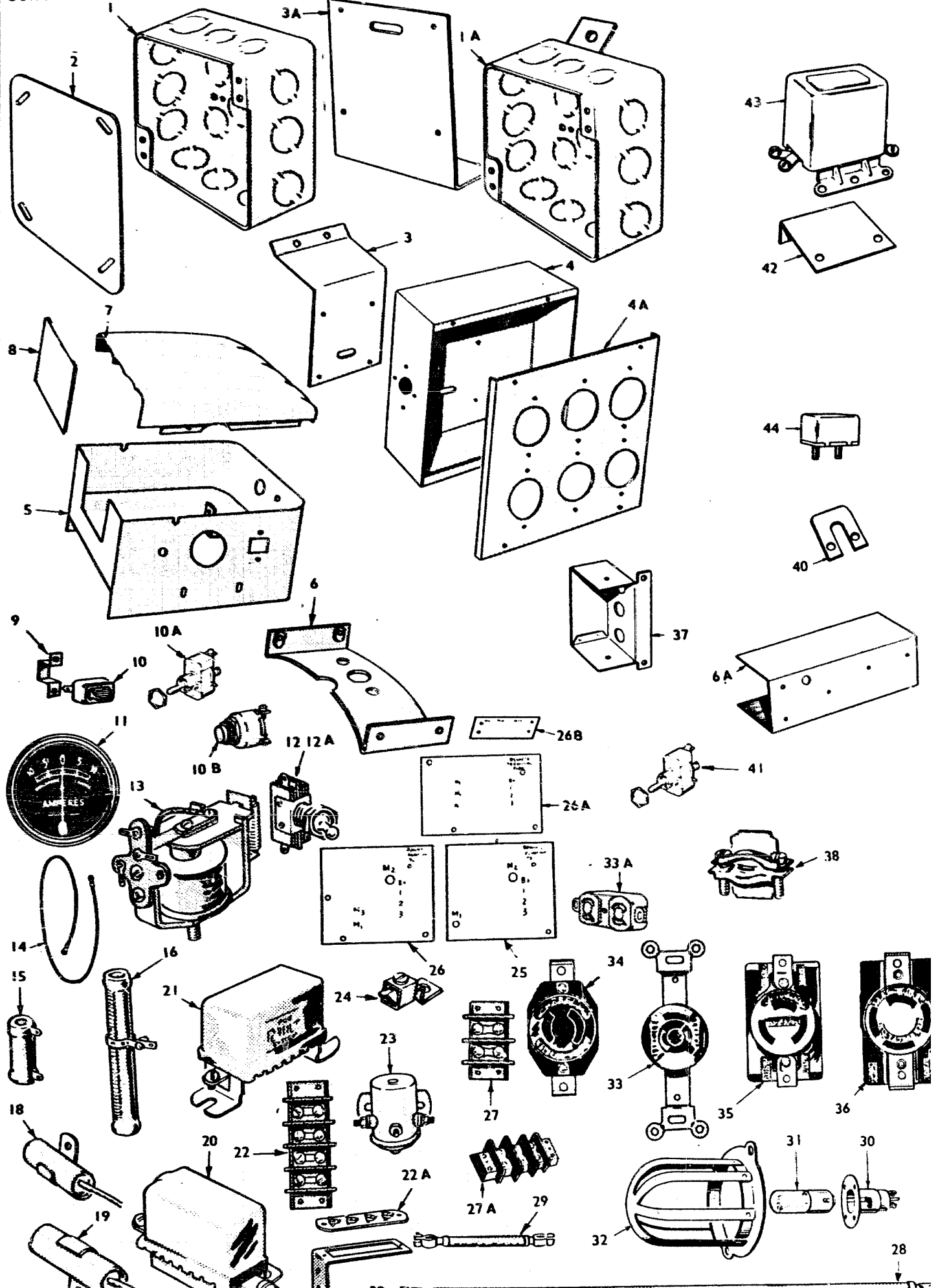


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405C1013	1	Hood, Engine
2	134D589	1	Housing, Cylinder Air, Left (#1 Cylinder)
3	HOUSING, BLOWER 134D569	1	Pressure Cooled Plants, Key 1, 2, 3, 4, 5, 6, 7, 8, 9, Prior to Spec J
	134D1566	1	Pressure Cooled Plants, Key 1, 2, 3, 4, 5, 6, 7, 8, 9, Begin Spec J
	134D594	1	Vacu-Flo Cooled Plants, Key 3, 4, 7, Prior to Spec J
	134C2248	1	Vacu-Flo Cooled Plants, Key 3, 4, 7, Begin Spec J
	134D705	1	Key 10, Prior to Spec J
	134D1574	1	Key 10, Begin Spec J
4	HOUSING, CYLINDER AIR, RIGHT (#2 CYLINDER)		
	134D588	1	Key 1, 2, 3, 4, 5, 6, 7, 8, 9
	134D674	1	Key 10
	134C2134	1	Engines With Optional Solenoid Shift Starting Motor - Key 10
5	193P5	1	Gauge, Oil Pressure
6	501A4	1	Line, Flexible Oil
7	313P18	1	Button, Stop, Key 1, 2, 5, 6, 8, 9
8	160B500	1	Bracket, Ignition Timing (Vacu-Flo Cooled Plants) Key 3, 4, 7, Prior to Spec D
9	NUT, SPEED GRIP 870-110	4	Key 1, 2, 5, 6, 8, 9 (Readi-Pull Starter Mounting)
	870-110	4	Vacu-Flo Cooled Plants, Key 3, 4, 7 (Air Scroll Mounting)
10	502-5	1	Elbow, Inverted Female, Oil Gauge
11	334-28	1	Lead, Stop (4ft. Piece of Bulk Wire)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	134C662	1	Cover, Cylinder #2, Right; (NOTE: Not used on Vacu-Flo Cooled Plants)
13	134D663	1	Cover, Cylinder #1, Left; (NOTE: Not used on Vacu-Flo Cooled Plants)
14	BAFFLE, AIR 134B670 134C2131	1 1	Key 10 Engines With Optional Solenoid Shift Starting Motor - Key 10
15	134D564	1	Scroll, Air (Vacu-Flo Cooled Plants) Key 3, 4, 7
15A	134C816	1	Shutter Assembly, Discharge Air (Optional on Vacu-Flo Cooled Plants), Key 3, 4, 7 (Includes Parts Marked **)
16	134D815	1	**Scroll, Air Duct (With Provision for Air Shutter)
17	134B661	1	**Plate, Vernatherm Element Mounting
18	134B660	1	**Bracket, Vernatherm Element
19	134A656	1	**Spring, Vernatherm Element
20	309P85	1	**Element, Vernatherm
21	134A658	1	**Spring, Shutter
22	134A655	1	**Shutter, Circulated Air Control
23	518P74	1	**Ring, Ext. Ret., Shutter Shaft
24	526-102	1	**Washer (Large), Shutter Spacing
25	526-16	3	**Washer (Small), Shutter Spacing
26	309A2	1	**Switch, Hi-Temp. Cut-Off
27	508-31	1	**Grommet, Rubber
28	336A1252	1	**Lead, Hi-Temp. Cut-Off Switch
29	309-10	1	Switch, Low Oil Pressure (Optional)
30	502-58	1	Tee, Oil Line (Optional)
31	308-97	1	Switch, Momentary Contact
32	517-21	1	Plug, Dot Button (7/8" Hole), Key 3, 7
	405B1059	1	Canvass - Anti-Vibration (3-1/4 x 10) Vacu-flo Cooled plants

** - Parts contained in Shutter Assembly.

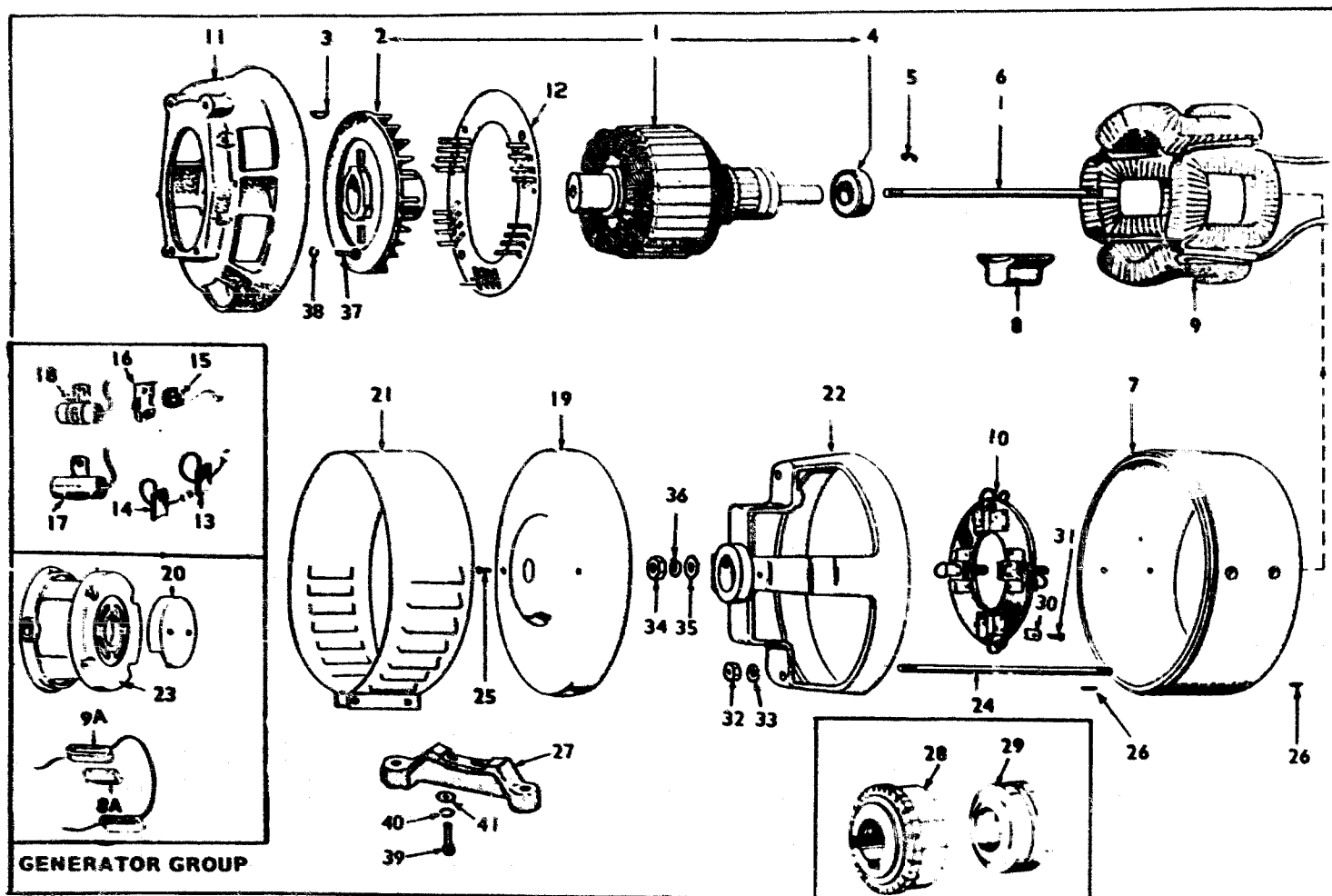
CONTROL GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BOX, JUNCTION		
	330-28	1	Key 1, 5
	330-28	1	Key 9, 10 Prior to Spec D
1A	330B47	1	Box, junction, Begin Spec D (Includes Bracket)
2	330-6	1	Cover, Junction Box, Key 1, 5, 9, 10
	BRACKET, BOX MOUNTING		
3	301C1277	1	Key 1, 5 (Mtg. Junction Box)
	301C1277	1	Key 8 (Mtg. Receptacle Box)
3A	301C1276	1	Bracket, Mounting, Key 2, 6 (Mounting Receptacle Box)
4	BOX, RECEPTACLE		
	301C2112	1	Key 2, 6
	301C1517	1	Key 8
4A	PANEL, RECEPTACLE BOX		
			Key 2, 6
	301B525	1	1 Phase, Prior to Serial 683612
	301B1755	1	1 Phase, Begin Serial 683612
	301B1265	1	3 Phase
	301B525	1	Key 8, Prior to Serial 683512
	301B1755	1	Key 8, Begin Serial 683612
5	£	1	Box, Control (Includes Panel & Resistor Bracket)
6	301B1198	1	Bracket, Control Mounting, Key 3, 4, 7
6A	301C1494	1	Bracket, Control Mounting, Key 10
7	COVER, CONTROL BOX		
	301C202	1	Pressure Cooled Plants, Key 3, 4, 7
	301C1244	1	Vacu-Flo Cooled Plants, Key 3, 4, 7
8	301B1271	1	Plate, Control Box End, Vacu-Flo Cooled Plants, Key 3, 4, 7
9	301A974	1	Bracket, Start-Stop Switch, Key 3, 4, 7 (Used with old type Switch Only)
10	308A166	1	Switch, Start-Stop (Includes Mtg. Plate) Key 3, 4, 7, Prior to 2-10-61
10A	308P154	1	Switch, Start-Stop, Begin 2-10-61
10B	308A29	1	Button, Start, Key 10
11	AMMETER, CHARGE		
	302A58	1	Key 3, 4, 7
	302A62	1	Utility Models
12	308-2	1	Switch, Toggle (Manual-Electric Start) Key 3, 4, 7
12A	308-69	1	Switch, Ignition, Key 10
13	307B253	1	Relay, Stop, Key 3, 4, 7
14	LEAD, WIRE		
	336A1124	1	Key 10 (Optional) Battery Charge (Generator to Start Solenoid)
	336A1136	1	Key 10, Choke to Start Solenoid
15	RESISTOR, FIXED		
	304A251	1	Key 3, 4, 7 (30-Ohm, 5 Watt)
	304A344	1	Key 3, 4, 7 (1-Ohm, 24 Watt) 3/4 x 2"
	304A60	1	Key 3, 4, 7, 10 (1.72-Ohm, 25 Watt) 9/16 x 2" (Ignition)
16	RESISTOR, ADJUSTABLE		
	304A175	1	Key 3, 4, 7 (1-Ohm) 3/4 x 4"
	304A110	1	Key 8 (60-Ohm, 50 Watt) 3/4 x 4"
18	CONDENSER (0.1 Mfd.) LOAD TERMINAL SUPPRESSION, KEY 3, 4, 7		
	312A58	1	120 Volt or 240 Volt, 1 Phase
	312A58	2	120/240 Volt, 1 Phase
	312A58	3	120/208 Volt, 3 Phase
	312A58	3	240 Volt, 3 Phase
	312A58	3	120/240 Volt, 1 Phase Reconnectable
19	312A57	1	Condenser (1. Mfd.) Start Solenoid Suppression, Key 3, 4, 7
20	305A1	1	Regulator, Voltage, (Charge Circuit) Key 3, 4, 7
21	RELAY, REVERSE CURRENT		
	307B180	1	Key 3, 4, 7
	307B495	1	Utility Models
22	332A537	1	*Block, Terminal, Remote

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
22A	332A222	1	*Block, Terminal, Remote Control (4 Place) - Early Models
23	SOLENOID, START		
	307B1046	1	Key 3, 4, 7
	307P367	1	Key 10
24	332-142	As Req.	Terminal, Solderless
25	332A540	1	Strip, Marker (Load Terminal), Key 3, 4, 7 - 120 Volt; or 240 Volt, 1 Phase
26	332A539	1	Strip, Marker (Load Terminal), Key 3, 4, 7, 120/240 Volt, 1 Phase
26A	STRIP, MARKER (LOAD TERMINAL) KEY 3, 4, 7		
	332A558	1	120/208 Volt, 3 Phase
	332A541	1	240 Volt, 3 Phase
26B	STRIP, MARKER		
	332A566	1	Key 3, 4, 7 (Remote Control) - Later Models
	332A435	1	Key 3, 4, 7 (Load Terminal), Earlier Models
	332A426	1	Key 10 (Ignition)
27	332A231	1	Block, Terminal (2 Place) Key 3, 4, 7, 120/240 Volt, 1 Phase
27A	BLOCK, TERMINAL		
	332A236	1	Key 3, 4, 7, 3 Phase (3 Place)
	332A254	1	Key 3, 4, 7, 120/240 Volt, 1 Phase, Reconnectable (Load Terminal) - Early Models
	332A406	1	Key 10 (3 Place) Ignition
28	416A77	2	Cable, Battery (28") Key 3, 4, 7
29	416A4	1	Cable, Battery Jumper, Key 3, 4, 7
30	322P21	1	Receptacle, Pilot Lamp, Key 2, 6, 8
31	LAMP, PILOT		
	322-11	1	Key 8
	322-11	1	Key 2, 6
	322-11	1	120 Volt or 120/240 Volt, 1 Phase, 120/240 Volt, 3 Ph.
	322-59	1	240 Volt, 1 Phase, 240 Volt, 3 Phase
32	322A22	1	Guard, Pilot Lamp, Key 2, 6, 8
33	323P195	4	Receptacle, Twistite, Key 2 (1 Phase), 6 (1 Phase), 8, Prior to Serial 683612
33A	323P184	2	Receptacle, Duplex, Key 2 (1 Phase), 6 (1 Phase), 8, Begin Serial 683612
34	323P23	2	Receptacle, Twistlock, Key 2, 6 (120 Volt or 240 Volt, 1 Phase) & Key 8
35	RECEPTACLE, TWISTLOCK - KEY 2, 6		
	323-11	2	120/240 Volt, 1 Phase
	323-11	3	3 Phase
36	323P91	3	Receptacle, Twistlock, 3 Ph.
37	301B482	1	Box, Resistor Mtg., Key 8
38	331-27	1	Connector, Load Conductor, Key 1, 2, 5, 6
39	332A198	1	Bracket, Mounting (Remote Control Terminal Block) - Earlier Models
40	332A439	1	Jumper, Load Terminal Block
41	308-97	1	Switch, Momentary Contact - Used with Low Oil Pressure Switch (Optional)
42	301A2694	1	Bracket, Relay Mounting - Utility Models
43	307B454	1	Relay, Charge Disconnect - Utility Models
44	320A158	1	Breaker, Circuit - Utility Models

£ - Refer to factory giving complete Model, Spec and Serial Number.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	*	1	Armature Assembly (Includes Bearing & Blower)
2	205C53	1	Blower, Generator
3	515-6	1	Key, Blower to Crankshaft
4	510A47	1	Bearing (Ball), Armature
5	232A596	1	Clip, Bearing Stop
6	STUD, ARMATURE THROUGH		Key 1, 2, 3
	520A491	1	120 Volt or 240 Volt, 1 Phase (7/16 x 14-1/2")
	520A525	1	120/240 Volt, 1 Phase (Reconnectable and Non-Reconnectable) & All 3 Phase (7/16 x 15-7/8")
	520A407	1	120 Volt or 240 Volt, 1 Phase (7/16 x 17-3/4")
	520A595	1	120/240 Volt, 1 Phase (Reconnectable and Non-Reconnectable) & All 3 Phase (7/16 x 19-1/2")
	520A491	1	Key 8, 9, 10
	520A534	1	Prior to Spec D (7/16 x 14-1/2")
	520A534	1	Begin Spec D (7/16 x 16-3/8")
7	FRAME ONLY, GENERATOR (Machined & Drilled, Less Coils & Pole Shoes)		
	210D244	1	Key 1, 2, 3
	210B238	1	Key 4, 5, 6, 7
	210D277	1	Key 8, 9, 10
	210D309	1	Prior to Spec D
	210D309	1	Begin Spec D

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
8	SHOE, POLE, FIELD		
	221A91	4	Key 1, 2, 3 (4-1/2")
	221A90	4	Key 4, 5, 6, 7, (7-1/2")
	221B56	4	Key 8, 9, 10
	221B130	4	Prior to Spec D (4-1/2")
	221B130	4	Begin Spec D (5")
8A	SHOE, INTERPOLE, KEY 8, 9, 10		
	221A47	2	Prior to Spec D
	221A133	2	Begin Spec D
9	*	1	Coil Assembly, Field (Set of 4 Coils)
9A	COIL ASSEMBLY, INTERPOLE (Set of 2 Coils)		Key 8
	222A1498	1	Prior to Spec D
	222A1540	1	Begin Spec D
	222A1278	1	Key 9, 10
	222A1546	1	Prior to Spec D
	222A1546	1	Begin Spec D
10	RIG ASSEMBLY, BRUSH		Key 1, 2, 3, 4
	212C294	1	120 Volt or 240 Volt, 1 Phase
	212C295	1	120/240 Volt, 1 Phase
	212C298	1	120/208 Volt, 3 Phase, 120 Volt, 1 Phase, Reconnectable & Non-Reconnectable
	212C297	1	120/240 Volt, 3 Phase & 220/380 Volt, 3 Phase
	212C293	1	240 Volt, 3 Phase
	212C294	1	Key 5, 6, 7
	212C295	1	120 Volt, 1 Phase
	212C295	1	240 Volt, 1 Phase
	212C295	1	120/240 Volt, 1 Phase

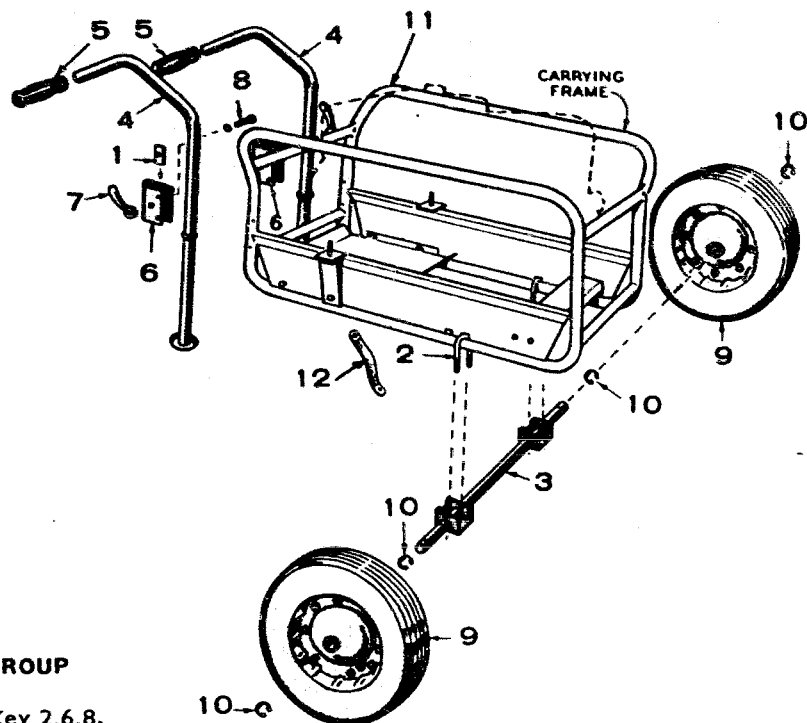
* - Order by description, giving complete Model, Spec and Serial Number.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	212C298	1	120/208 Volt, 3 Phase, 120/240 Volt 1 Phase, Reconnectible & 277/480 Volt, 3 Phase
	212C297	1	240 Volt, 3 Phase Key 8
	212C236	1	Prior to Spec D
	212C237	1	Begin Spec D
			Key 9, 10
	212C236	1	Prior to Spec D
	212C243	1	Begin Spec D
11	231B1006	1	Adapter, Generator to Engine
12	232B1256	1	Scroll, Air Baffle
13	BRUSH, COMMUTATOR		Key 1, 2, 3, 4, 5, 6, 7 120/240 Volt, 1 Phase & 240 Volt, 3 Phase
	214A30	4	Prior to Spec J
	214A61	4	Begin Spec J
	214A61	4	120 Volt, 1 Phase, 240 Volt, 1 Phase, 120/208 Volt, 3 Phase, 120/240 Volt, 1 Phase, Recon- nectible, 120/240 Volt, 3 Phase, 220/380 Volt, 3 Phase, and 277/480 Volt, 3 Phase
			Key 8
	214A48	4	Prior to Spec D
	214A65	4	Begin Spec D
			Key 9, 10
	214A48	4	Prior to Spec D
	214A66	4	Begin Spec D
14	BRUSH, COLLECTOR RING		Key 1, 2, 3, 4
	214A50	4	120 Volt or 240 Volt, 1 Phase 120/240 Volt, 1 Phase
	214A62	3	Prior to Spec J
	214A56	3	Begin Spec J
	214A56	4	120/208 Volt, 3 Phase, 120/240 Volt, 1 Phase, Re- connectible, 120/240 Volt, 3 Phase & 220/380 Volt, 3 Phase
			240 Volt, 3 Phase
	214A32	3	Prior to Spec J
	214A50	3	Begin Spec J
			Key 5, 6, 7
	214A56	4	120 Volt, 1 Phase, 120/240 Volt, 1 Phase, Reconnectible & 277/480 Volt, 3 Phase
	214A50	4	240 Volt, 1 Phase 120/240 Volt, 1 Phase
	214A62	3	Prior to Spec J
	214A56	3	Begin Spec J
	214A56	4	120/208 Volt, 3 Phase 240 Volt, 3 Phase
	214A32	3	Prior to Spec J
	214A50	3	Begin Spec J
15,16 SPRING, COMMUTATOR BRUSH			Key 1, 2, 3, 4, 5, 6, 7 Prior to Spec J
	212B1105	4	120 Volt or 240 Volt, 1 Phase 120/240 Volt, 1 Phase, Re- connectible & 120/208 Volt, 3 Phase (Ref. 16)
	212A1003	4	120/240 Volt, 1 Phase & 240 Volt, 3 Phase (Ref. 15)
	212B1105	4	Begin Spec J (Ref. 16)
			Key 8, 9, 10
	212B1011	4	Prior to Spec D (Ref. 15)
	212B1105	4	Begin Spec D (Ref. 16)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
15,16 SPRING, COLLECTOR RING BRUSH			Key 1, 2, 3, 4, 5, 6, 7
	212B1105	4	120 Volt, 1 Phase, 240 Volt, 1 Phase, 120/240 Volt, 3 Phase, 220/380 Volt, 3 Phase & 277/480 Volt, 3 Phase (Ref. 16)
			120/240 Volt, 1 Phase & 240 Volt, 3 Phase
	212A1004	3	Prior to Spec J (Ref. 15)
	212B1105	3	Begin Spec J (Ref. 16)
			120/208 Volt, 3 Phase & 120/2 Volt, 1 Phase, Reconnectib
	212A1123	4	Prior to Spec J (Ref. 16)
	212B1105	4	Begin Spec J (Ref. 16)
17	CONDENSER (.5 MFD.) DC		Key 1, 2, 3, 4, 5, 6, 7
	312A17	1	120 Volt or 240 Volt, 1 Phase
	312A27	1	120/240 Volt, 1 Phase (Recon- nectible & Non-Reconnecti & All 3 Phase
	312A17	1	Key 8, 9, 10
18	CONDENSER (.1 MFD.) AC		Key 1, 2, 3, 4, 5, 6, 7
	312A58	1	120 Volt or 240 Volt, 1 Phase
	312A58	2	120/240 Volt, 1 Phase
	312A58	3	120/240 Volt, 1 Phase, Recon- nectible & All 3 Phase
19	COVER, END BELL		Key 1, 2, 3, 4, 5, 6, 7
	211C99	1	Key 8, 9, 10, Begin Spec D
20	211C99	1	Cover, Air Intake, Key 8, 9, 10 - Prior to Spec D
21	BAND, END BELL		Key 1, 2, 3, 4, 5, 6, 7
	234B2	1	120 Volt or 240 Volt, 1 Phase
	234C5	1	120/240 Volt, 1 Phase (Recon- nectible & Non-Reconnectib & All 3 Phase
			Key 8
	232B284	1	Prior to Spec D
	234C68	1	Begin Spec D
			Key 9, 10
	232B202	1	Prior to Spec D
	234B65	1	Begin Spec D
22	BELL, END		Key 1, 2, 3, 4, 5, 6, 7
	211D97	1	120 Volt or 240 Volt, 1 Phase
	211D98	1	120/240 Volt, 1 Phase (Recon- nectible & Non-Reconnec- tible) & 240 Volt, 3 Phase
	211D98	1	120/208 Volt, 3 Phase
			Key 8, 9, 10
	211D97	1	Begin Spec D
23	211D53	1	Prior to Spec D
24	STUD, GENERATOR THROUGH		Key 1, 2, 3 (5/16 x 12-3/16")
	520A502	2	Key 4, 5, 6, 7 (5/16 x 15-11/16")
	520A498	2	Key 8, 9, 10
	520A500	2	Prior to Spec D (5/16 x 13-13/16")
	520A161	2	Begin Spec D (5/16 x 14-1/4")
25	815-48	2	Screw, Round Head Self Tapping (#10-32 x 3/8") - End Bell Cover Mounting, Key 1, 2, 3, 4, 5, 6, 7 (NOTE: Key 8, 9, 10 - Begin Spec D)
26	516-103	2	Pin, Roll - Generator Frame - 1/8 x 1/2"

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
27	SUPPORT, GENERATOR		
			Key 1, 2, 5, 6, 8
	232C1276	1	Prior to Spec D
	232C1257	1	Begin Spec D
	232C1257	1	Key 3, 4, 7, 9, 10
28	COMMUTATOR (DC)		
			Key 1, 2, 3
	203A8	1	50 Hertz
	203A9	1	60 Hertz
	203A127	1	Key 4, 5, 6, 7
	203A134	1	Key 8
	203A130	1	Key 9, 10
29	COLLECTOR RING (AC) KEY 1, 2, 3, 4, 5, 6, 7		
	204A9	1	120 Volt & 240 Volt, 1 Phase
	204A10	1	120/240 Volt (Non-Reconnectible) 1 Phase & 240 Volt, 3 Phase
	204A92	1	120/240 Volt (Reconnectible) 1 Phase, 120/208 Volt, 3 Phase, 127/220 Volt, 3 Phase & 220/380 Volt, 3 Phase

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
30	212A1214	4	Clamp, Brush Rig
31	800-4	4	Screw (1/4-20 x 5/8") - Clamp Mounting
32	862-15	2	Nut, Hex (5/16)
33	850-45	2	Washer, Lock (5/16)
34	862-4	1	Nut, Hex (7/16-14) - Armature Through Stud
35	526-32	1	Washer, Flat (7/16)
36	850-55	1	Washer, Lock (7/16)
37	800-50	4	Screw (3/8-16 x 1") - General Adapter Mounting
38	850-50	4	Washer, Lock (3/8)
39	800-50	2	Screw (3/8-16 x 1") - General Support to Generator Frame
40	850-50	2	Washer, Lock (3/8)
41	526-30	2	Washer, Flat (3/8)

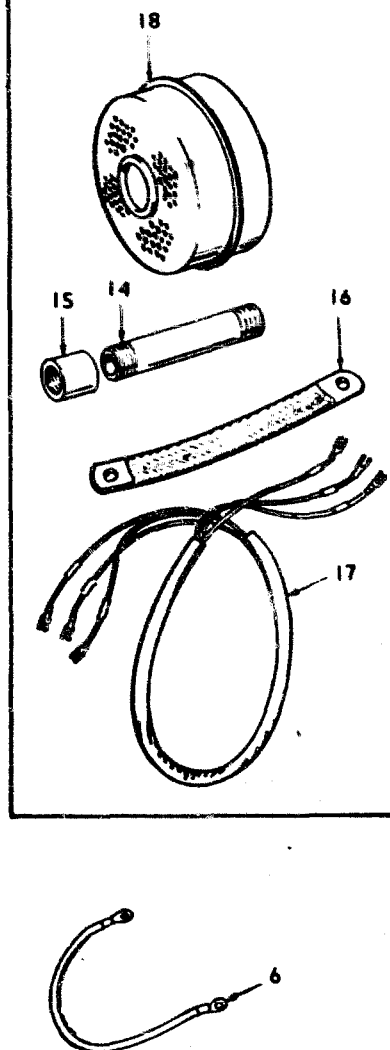
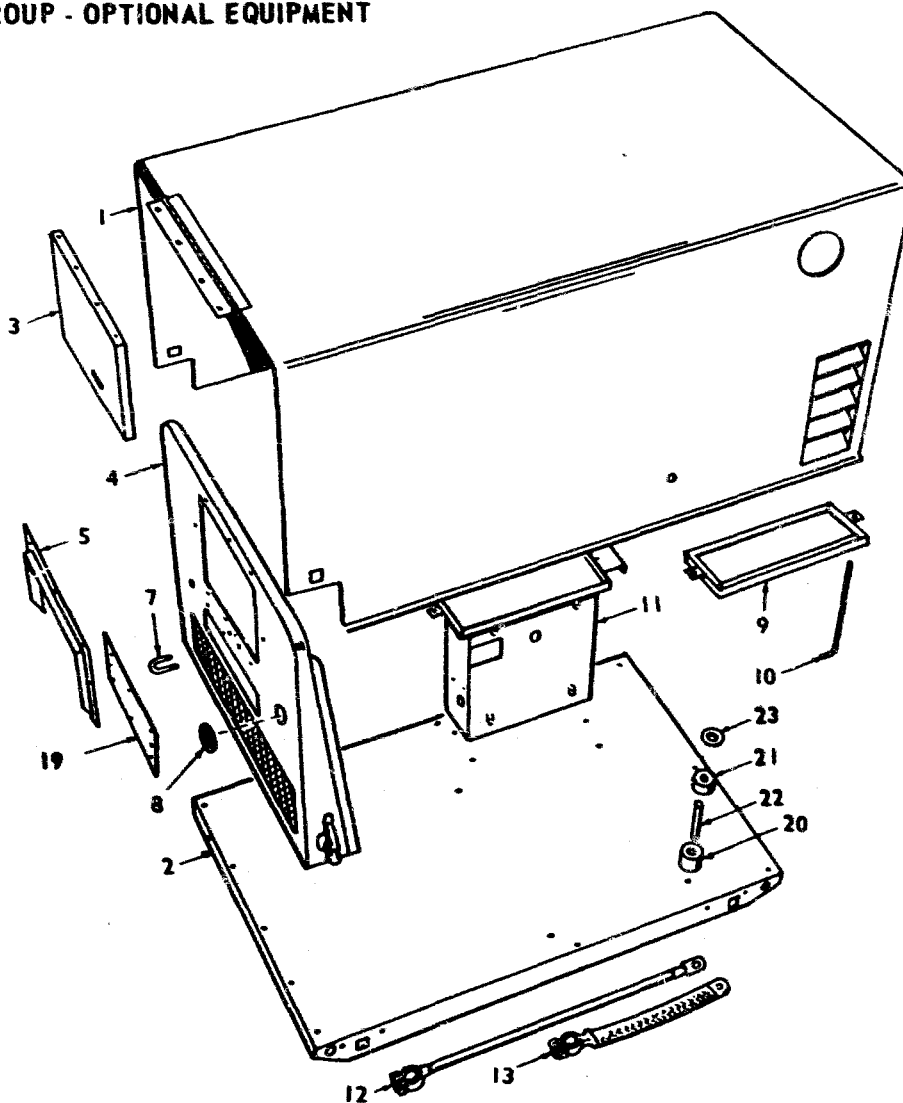


CARRYING FRAME AND DOLLY GROUP
(Portable Plants)
NOTE: Optional Equipment for Key 2,6,8.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	410C235	1	Dolly Assembly, Complete (Includes Parts Marked *)
1	410A238	2	*Lock, Handle
2	410C148	2	*Bolt, "U"
3	410B233	1	*Axle, Dolly
4	410B147	2	*Handle, Dolly
5	403-205	2	*Grip, Handle
6	410B179	2	*Channels, "U"

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	406-62	2	*Nut, Handle
8	800-52	2	*Bolt, Wedge
9	410-236	2	*Wheel & Tire Assy. (16 x 4)
10	518-130	4	*Ring, "E" Ret., Wheel to A
11	403C406	1	Frame, Carrying Std. for Key 6, 8
12	337A50	1	Strap, Ground, Std. for Key 2, 6, 8

HOUSING GROUP - OPTIONAL EQUIPMENT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405D1001	1	Cover, Hinged - Sides and Top
2	403D358	1	Skid, Mounting
3	301B1378	1	Cover, Instrument Cover
4	405D1000	1	Panel, Housing - Rear
5	405B1035	1	Shield, Rain
6	405A1134	2	Rope, Door Stop
7	405-992	1	Bolt, U
8	508-1	1	Grommet, Rubber (For 1-1/16" Hole)
9	416B495	1	Frame, Battery Holddown
10	416A333	1	Stud, Battery Holddown
11	416C520	1	Tray, Battery Mounting
12	416A14	1	Cable, Battery (15')

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	416A385	1	Cable, Battery - Braided (17')
14	505-139	1	Nipple, Oil Drain (3/8 x 2')
15	505-28	1	Coupling, Oil Drain (3/8')
16	337-36	1	Strap, Bond - Grounding
17	338A160	1	Harness, Start-Stop Switch
18	155B522	1	Muffler, Exhaust
19	301B1386	1	Panel, Blank (Receptacle)
20	402A38	4	Cushion, Plant Mtg. (Lower)
21	402A131	4	Cushion, Plant Mtg. (Upper)
22	402A137	4	Bushing, Spacer
23	526A71	8	Washer, Flat - Plant Mounting

SERVICE KITS AND MISCELLANEOUS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	98C1100	1	Decal Kit
	160K836	1	Ignition Tune-up Kit
	168K103	1	Gasket Kit, Plant (Replaces 168K67)
	168K95	1	Carbon Removal Gasket Kit
	412C28	1	Cover, Canvas
	522K164	1	Overhaul Kit
	525P90		Paint, Touch-up (Pressurized Can) 12 oz., Mouse Grey Enamel
	525P137		Paint, Touch-up (Pressurized Can) 16 oz., Green Enamel

NOTE: For other Kits, refer to the Group for the Part in question.

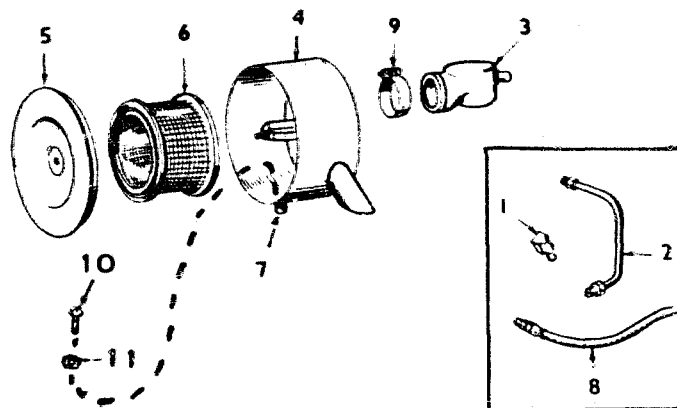
SPECIAL PARTS SECTION

FOR 4.0CCK-3CE/ & 5.0CCK-3CE/
(FORMERLY 4CCK-3E2236/ & 5CCK-3E2236/)
CONTRACTORS MODELS

Parts not listed in this section, refer to the standard parts groups. Use Key 2 for 4.0CCK and Key 6 for 5.0CCK.

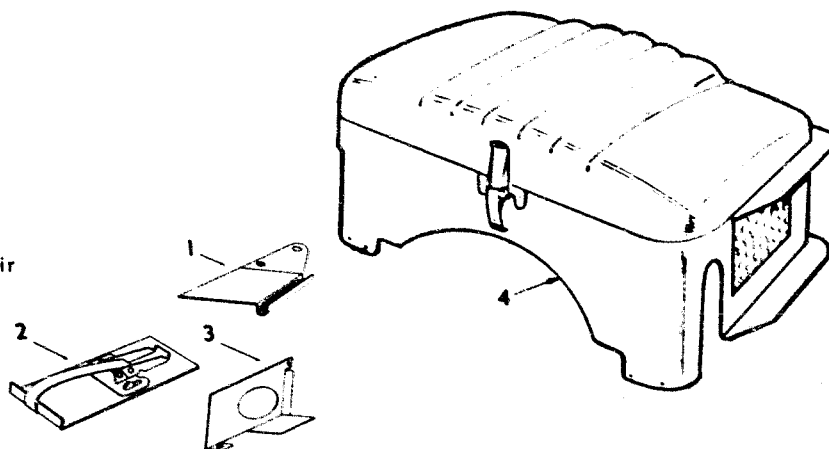
FUEL SYSTEM GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	502-138	1	Elbow, Fuel Pump Inlet
2	149A775	1	Line, Fuel
3	145A94	1	Inlet, Carb. Air
4	140C537	1	Housing, Air Cleaner
5	140B538	1	Cover, Air Cleaner
6	140B495	1	Cartridge, Air Cleaner
7	140A554	1	Spacer, Air Cleaner Mtg. Screw
8	501A153	1	Line, Fuel (Pump to Filter)
9	503-280	1	Clamp, Air Inlet to Cleaner
10	815-172	1	Screw, Air Cleaner Mtg.
11	856-3	1	Washer, Shakeproof - Air Cleaner Mtg.



AIR HOUSING AND OPTIONAL AIR SHUTTER GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405B1663	1	Support, Hood
2	134B1469	2	Fastener, Hood
3	134A1144	1	Baffle, Fuel Pump Air
4	405C1662	1	Hood, Engine



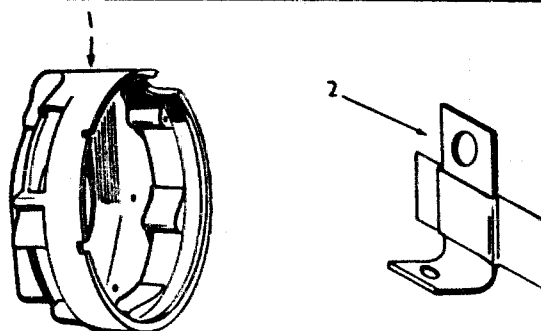
GEAR COVER, OIL BASE AND OIL PUMP GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	NIPPLE, OIL DRAIN		
	505-342	1	Early Models (3/8 x 5-1/2")
	505-81	1	Later Models (1/2 x 5-1/2")
2	COUPLING, OIL DRAIN		
	505-28	1	Early Models (3/8)
	505-14	1	Later Models (1/2)



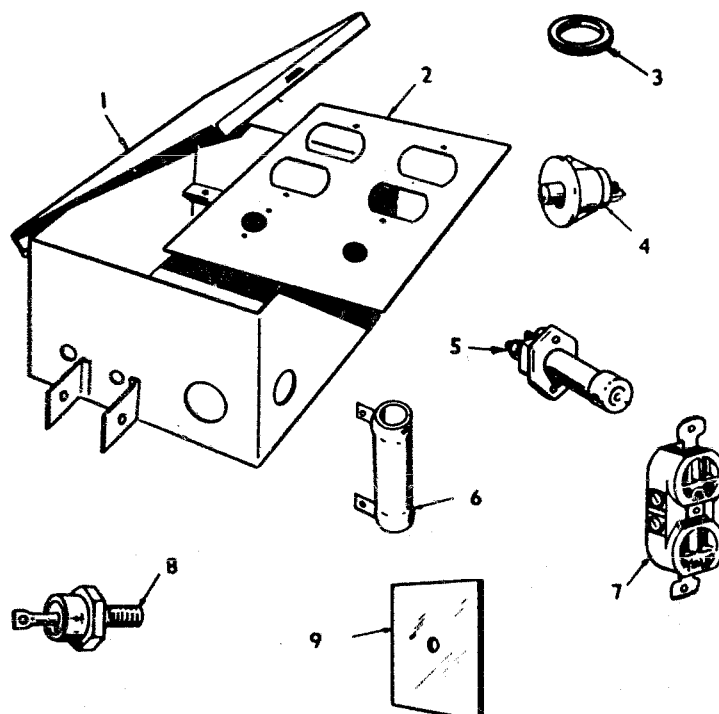
GENERATOR GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	231C124	1	Adapter, Gen. to Eng.
2	403C827	1	Yoke, Lifting



CONTROL GROUP

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301D2880	1	Box, Control
2	301B2881	1	Panel, Cont. Box.
3	GROMMET, CONTROL BOX		
	508A2	1	For 1/2" Hole
	508-8	1	For 13/16" Hole
	508-9	1	For 1-3/8" Hole
4	313P18	1	Switch, Stop
5	398A28	1	Switch, Start
6	304A139	1	Resistor (2.5-Ohm, 25-W)
7	RECEPTACLE, DUPLEX		
	323-184	1	120-Volt
	323-213	1	240-Volt
8	305P235	1	Rectifier
9	305A256	1	Bracket, Rectifier



SPECIAL PARTS LIST FOR **MODEL** 4CCK-52RV/3171J **SPEC** _____
 FOR STANDARD PARTS REFER TO **CATALOG** _____ **KEY NO.** 3
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-0888

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
VACU-FLO COOLING 240 VOLT/SINGLE PHASE HOUSED UNIT					
210-0238	1	Frame, Generator			
201-0835	1	Armature, Generator (Includes Bearing and Blower)			
222-1416	1	Coil Assembly, Field (Set of 4 Coils)			
221-0090	4	Shoe, Pole-Field			
520-0498	1	Stud, Generator Thru			
520-0407	1	Stud, Armature Thru			
203-0127	1	Commutator, DC			
301-1160	1	Box, Control			
301-2823	1	Panel, Meter			
332-0557	1	Fastener, AC Output (Paper)			
307-0040	1	Solenoid, Start			
308-0154	1	Switch, Start-Stop			
302-0418	1	Ammeter, AC (0-30 Scale)			
302-0421	1	Voltmeter, AC (0-300 Scale)			
302-0469	1	Meter, Running Time			
302-0256	1	Meter, Frequency (48-52 Scale)			
320-0018	1	Breaker, Circuit (20 Amp)			
323-0184	1	Receptacle, Duplex			
332-0231	1	Block, Terminal (2 Place)			
332-0237	1	Strip, Marker (2 Place)			
159-0592	1	Tank, Fuel			
159-0594	2	Strap, Fuel Tank			
501-0008	1	Line, Fuel			
504-0013	1	Valve, Fuel			
416-0021	1	Cable, Battery			
405-2147	1	Panel, Housing-Rear			
301-1385	1	Panel, Control-Rear			
338-0520	1	Harness, Start-Stop			

SPECIAL PARTS LIST FOR MODEL 5CCK-5RV SPEC 5869J
 FOR STANDARD PARTS REFER TO CATALOG 927-0300 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. 611-0178

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu - Flo Cooling					
516-0141	2	Pin, Gear Cover			
332-0527	1	Terminal, Choke Cover Wire			
134-1572	1	Housing, Blower			
517-0035	1	Plug, Dot Button (1-1/16 Hole)			
134-1591	1	Housing, Cylinder Air - Right (#2 Cylinder)			
134-1617	1	Scroll, Air Duct			
140-0692	1	Cleaner Assembly, Air			
140-0693	1	Inlet, Carburetor Air			
167-0177	2	Plug, Spark			
505-0031	1	Coupling, Exhaust (1-1/4")			
201-0764	1	Rotor Assembly, Wound			
222-1416	1	Coil Assembly, Field			
520-0595	1	Stud, Armature Through			
515-0122	1	Key, Blower to Armature			
332-0592	1	Jumper, Ground - Stop Relay			
508-0009	1	Grommet, Control Box (1-3/8" Hole)			
508-0001	2	Grommet, Control Box (1-1/16 Hole)			
508-0002	1	Grommet, Control Box (1/2" Hole)			
501-0015	1	Line, Fuel Pump to Filter			
231-0123	1	Adapter, Generator to Engine			

MODEL 4CCK-1RV SPEC. 6456J

SUPPLEMENTARY PARTS LIST 900- 43 (per above model and spec.)
 Parts listed below apply to the above model. Use these parts in
 place of (or in addition to) the parts listed for Parts Key 3
 in the standard parts catalog No. 927-300

PART NO.	QUAN.	DESCRIPTION
134A1019	1	Baffle, Fuel Pump
140C537	1	Cleaner Body, Air
140B538	1	Cleaner Cover, Air
140B495	1	Cartridge, Air Cleaner
140A596	1	Spacer, Air Cleaner Mtg.
145A94	1	Inlet, Carburetor Air
149A775	1	Line, Fuel Pump to Carburetor
193B148	1	Bracket, Oil Gage Mounting
501-4	1	Line, Fuel-Flex
501-5	1	Line, Oil-Flex
502-20	2	Elbow, (1) Fuel Pump Inlet (1) Carb.Inlet
517-35	1	Plug, Dot Button (1-1/16")
517-9	1	Plug, Dot Button (2")
518-56	1	Screw, Wing, Air Cleaner
142-217	1	Shaft, Choke (Carburetor)
142-55	1	Fly, Choke (Carburetor)
142-113	1	Swivel, Choke Linkage
142A363	1	Carburetor Assy., Gasoline
153-223	1	Choke, 12-Volt
153A226	1	Linkage, Choke
154C572	1	Manifold, Exhaust
516-59	1	Pin, Cotter - Choke Linkage Swivel
231E123	1	Adapter, Generator
214A56	4	Brush, Collector Ring
210B238	1	Frame Only, Gen. (Machined & Drilled, Less Coils & Pole Shoes)
221A90	4	Shoe, Pole-Field
201A758	1	Armature Assy., Incl.Brg. & Blower
222A1416	1	Coil Assy., Field (Set of 4 Coils)
212C293	1	Rig Assembly, Brush
301C2723	1	Box, Control
301B2722	1	Box, Relay & Terminal Block
307B642	1	Relay, Choke
332A609	1	Block Terminal (2-Place)'

SPECIAL PARTS LIST FOR MODEL 5.0CCK-5R SPEC 7568J
 FOR STANDARD PARTS REFER TO CATALOG 927-0300 KEY NO. 7
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1016-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu - Flo Cooling					
134-2956	1	Guard, Scroll Outlet			
166-0519	1	Bracket, Ignition Timing			
516-0141	2	Pin, Gear Cover			
150-0754	1	Bracket, Solenoid Spring			
142-0363	1	Carburetor Assembly			
502-0065	1	Elbow, Inverted Male - Carb Inlet			
155-0714	1	Muffler, Exhaust			
153-0223	1	Choke Assembly			
153-0361	1	Linkage, Choke			
152-0155	1	Swivel, Choke Linkage			
505-0479	1	Cap, Muffler Pipe			
134-2015	1	Housing, Blower			
517-0035	1	Plug, Dot Button (1-1/16" Hole)			
134-1617	1	Scroll, Air Duct			
134-1591	1	Housing, Cylinder Air - Right (#2 Cylinder)			
508-0021	2	Grommet, Rubber (3/4" Hole)			
140-0692	1	Cleaner Assembly, Air			
140-0693	1	Inlet, Carburetor Air			
167-0237	2	Plug, Spark			
222-1416	1	Coil Assembly, Field			
201-0764	1	Rotor Assembly, Wound			
520-0595	1	Stud, Armature Through			
515-0122	1	Key, Blower to Armature			
332-0609	1	Block, Terminal			
301-2723	1	Box, Control (Includes Panel and Resistor Bracket)			
307-0642	1	Relay, Choke			
501-0003	1	Line, Fuel Pump to Filter (9")			
502-0003	1	Connector, Inverted Male - Fuel Filter			
160-1089	1	Bracket, Mounting - 4 Slotted Holes (3/8" x 5/8")			
149-1187	1	Bracket and Coupling Assy., Fuel Filter			
301-2722	1	Box and Terminal Block Assembly, Relay			
231-0123	1	Adapter, Generator to Engine			

SPECIAL PARTS LIST FOR MODEL 4.0CCK-8E SPEC 7732S
 FOR STANDARD PARTS REFER TO CATALOG 927-0300 KEY NO. 3
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 606-0212-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Vacu - Flo Cooling Low Oil Pressure Cut Off NOTE: Utility Model			402-0177	2	Cushion Assembly, Engine (Includes Parts Marked However Quantity of Par Listed are for One Cush Assembly Only)
120-0648	1	Cup, Oil Pump Intake	402-0036	1	#Cushion, Engine Mounting (Lower)
102-0410	1	Base, Oil	402-0176	1	#Bushing, Spacer
516-0141	2	Pin, Gear Cover	402-0131	1	#Cushion, Engine Mounting (Upper)
123-0791	1	Tube, Oil Fill	526-0076	2	#Washer, Flat (11/32" ID x 1-1/2" OD x 1/16" THK)
123-0764	1	Indicator, Oil Fill	862-0015	1	#Nut, Hex (5/16-18)
141-0078	1	Gasket, Oil Fill Tube Mtg.	850-0046	1	#Washer, Lock (5/16)
134-0911	1	Plate, Blower Wheel	816-0111	1	#Bolt, Carriage (5/16-18 x 3-3/4" Lg.)
104-0302	1	Flywheel (Includes Ring Gear)	Parts not Furnished by Onan Rope Sheave		
134-0673	1	Gear, Ring			
501-0015	1	Line, Oil - Flexible (16")			
309-0010	1	Switch, Low Oil Pressure			
502-0058	1	Tee, Oil Line			
193-0192	1	Bracket, Oil Gauge Mtg.			
134-1576	1	Housing, Blower			
134-1727	1	Scroll, Air Duct			
134-2956	1	Guard, Scroll Outlet			
134-0674	1	Housing, Cylinder Air - Right (#2 Cylinder)			
508-0084	2	Grommet, Rubber - Cylinder Air Housing (1-1/4" Hole)			
140-0736	1	Cleaner, Air			
517-0035	1	Plug, Dot Button (1-1/16" Hole)			
134-0670	1	Baffle, Air			
517-0009	1	Plug, Dot Button (2" Hole)			
191-0508	1	Flange, Starter Mounting			
191-0511	1	Motor Assembly, Starting			
515-0122	1	Key, Blower to Armature			
222-1682	1	Coil Assembly, Field			
201-1497	1	Rotor Assembly, Wound			
307-0081	1	Relay, Ignition			
332-0592	1	Strap, Ground - Stop Relay			
302-0062	1	Ammeter, Charge			
332-1971	1	Strip, Marker - Terminal Block			
212-1038	1	Strap, Ground - Ammeter			
332-0592	1	Jumper - Ignition Relay			
301-3432	1	Box and Panel Assembly, Control			
358-0019	1	Rectifier Diode, Silicon			
363-0059	1	Heat Sink, Diode			
336-1518	1	Cable, Starter to Solenoid			
231-0123	1	Adapter, Generator to Engine			
402-0138	2	Cushion Assembly, Generator			

SPECIAL PARTS LIST FOR MODEL 5.0CCK-3CE SPEC 8194J
 FOR STANDARD PARTS REFER TO CATALOG 927-0300 KEY NO. 6
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 606-0189-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
102-0428	1	Base, Oil - Includes Filler Neck			
516-0141	2	Pin, Gear Cover			
134-0591	1	Flywheel			
526-0017	1	Washer, Flat - Flywheel Mtg.			
149-0611	1	Line, Fuel Pump to Caburetor			
502-0020	3	Elbow (Inverted Male)-(2) Fuel Pump (1) Carb			
140-0399	1	Cleaner Assy., Air			
503-0480	1	Hose, Air Cleaner			
145-0080	1	Inlet, Carburetor Air			
140-0211	1	Sleeve, Air Cleaner Hose			
503-0280	3	Clamp, Air Cleaner Hose			
167-0028	2	Plug, Spark			
231-1006	1	Adapter, Generator To Engine			
517-0021	1	Plug, Dot Button (7/8" Hole)			
201-1098	1	Rotor Assembly, Wound			
323-0184	2	Receptacle, Duplex (120 Volt)			
308-0069	1	Switch, Ignition			
301-1277	1	Bracket, Control Box Mtg.			
301-2912	1	Panel, Control and Receptacle			
304-0060	1	Resistor, Fixed (1.72-OHM, 25 Watt)			
405-1013	1	Hood, Engine			
155-0824	1	Muffler, Exhaust			
505-0030	1	Coupling, Exhaust (1" Pipe)			
502-0020	1	Elbow, Street - Filter Bracket			
402-0138	4	Cushion Assembly, Plant Mtg. (Includes Parts Marked*, However Quantity of Parts Listed are for one Cushion Assembly Only)			
402-0038	1	*Cushion, Vibration - Lower			
402-0131	1	*Cushion, Vibration - Upper			
526-0076	2	*Washer, Flat (11/32" ID x 1-1/2" OD x 1/16")			
402-0137	1	*Bushing, Spacer			
816-0115	1	*Bolt, Carriage (5/16-18 x 5" lg)			
862-0015	1	*Nut, Hex (5/16"-18)			
850-0046	1	*Washer, Lock (5/16)			
520-0595	1	Stud, Armature Through			
515-0122	1	Key, Blower to Armature			
222-1687	1	Coil Assembly, Field			

SPECIAL PARTS LIST FOR MODEL

4.0CCK-8E

SPEC 10457J

FOR STANDARD PARTS REFER TO CATALOG

927-0300

KEY NO. 3

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

606-0155

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Low Oil Pressure Cut Off	167-0229	2	Clip, Support - Spark Plug Cable
110-1904	1	Block Assembly, Cylinder (Includes Camshaft Cover)	191-0511	1	Motor Assembly, Starting
110-1283	1	Cover, Camshaft Opening in Block	191-0508	1	Flange, Starter Mounting
231-0123	1	Adapter, Generator to Engine	134-0670	1	Baffle, Air
509-0090	2	Seal, Exhaust Valve Stem Oil	134-1469	2	Fastener, Hood
102-0517	1	Base, Oil	515-0122	1	Key, Blower to Armature
123-0764	1	Indicator, Oil Fill	210-0375	1	Frame, Generator (Only)
123-0791	1	Tube, Oil Fill	222-1650	1	Coil Assembly, Field
141-0078	1	Gasket, Oil Fill Tube Mtg.	201-1252	1	Rotor Assembly, Wound
505-0056	1	Plug, Pipe (1/2")	501-0009	1	Line, Flexible Fuel - Tar to Unit (36")
192-0296	1	Plate, Back-Rope Sheave	402-0346	2	Cushion Assembly, Engine Mtg. (Includes Parts Marked +, However Quantity of Parts Listed are for One Cushion Assembly Only)
134-0675	1	Flywheel (Includes Ring Gear)	402-0036	1	+Cushion, Engine Mounting (Lower)
134-0673	1	Gear, Ring - Flywheel	402-0131	1	±Cushion, Plant Mounting (Upper)
526-0128	1	Washer, Flywheel Mtg.	526-0076	2	±Washer, Flat (11/32" ID x 1-1/2" OD x 1/16" Thk)
104-0369	1	Screw, Flywheel Mtg.	402-0176	1	+Bushing, Spacer
149-0174	1	Line, Fuel Pump to Filter	402-0344	2	Cushion Assembly, Generator Mtg. (Includes Parts Marked ±, However Quantity of Parts Listed are for One Cushion Assembly Only)
501-0003	1	Line, Flexible - Oil Gauge	402-0038	1	±Cushion, Generator Mounting (Lower)
309-0113	1	Switch, Low Oil Pressure	402-0137	1	±Bushing, Spacer
153-0097	1	Cable, Manual Choke			
505-0104	1	Nipple, Fuel Filter to Carb			
502-0002	1	Elbow, Inverted-Fuel Pump Inlet			
142-0390	1	*Carburetor, Gasoline (Refer to Standard Gasoline Carb For Components, Except Parts Marked #)			
142-0055	1	#Fly, Choke			
142-0217	1	#Shaft Assembly, Choke			
142-0459	1	#Valve and Seat Assembly			
153-0249	1	Bracket, Choke - Carb Mtg.			
154-0356	1	Manifold, Intake			
167-1595	1	Cable, Spark Plug - Left (#1 Cylinder)			
167-1596	1	Cable, Spark Plug - Right (#2 Cylinder)			
166-0376	1	Bracket, Coil Mounting			
304-0610	1	Support, Terminal - Resistor Mounting			
304-0014	2	Washer, Centering - Resistor Mounting			
134-1775	1	Housing, Blower			
502-0017	1	Connector, Oil Pressure Gauge			
308-0155	1	Switch, Momentary Contact			
134-1552	1	Housing, Cylinder Air - Right (#2 Cylinder)			
140-0736	1	Cleaner, Air			
167-0054	2	Plug, Spark			

* No Repair Kit Available for This Model Carburetor.

Included in 142-0390 Carburetor.

+ Included in 402-0346 Cushion Assembly-Engine

± Included in 402-0344 Cushion Assembly - Generator

Parts not Furnished by Onan

Radio Shielding

Vacuum Booster

Controls

MODEL 4.0CCK-3CR SPEC. 12866J

SUPPLEMENTARY PARTS LIST 900- 43 (per above model and spec.)
Parts listed below apply to the above model. Use these parts in place of (or in addition to) the parts listed for Parts Key 3 in the standard parts catalog No. 927-300

PART NO.	QUAN.	DESCRIPTION
155-0550	1	Muffler
502-0065	1	Elbow, Inverted Male
332-0527	1	Clip (Carb.)
149-0650	1	Pump, Fuel
160-0763	1	Bracket, Ignition Coil Box
501-0007	1	Line, Fuel
309-0010	1	Switch, Low Oil Pressure
167-0062	2	Shield, Spark Plug
167-0063	2	Shield, Spark Plug
309-0002	1	Switch, Hi Temperature Cut-Off
134-0851	1	Scroll, Blower Housing
502-0058	1	Tee, Oil Line
308-0097	1	Switch, Momentary Contact
150-0159	1	Bracket, Governor Spring

900-0043

Supplementary Parts List

for

Model 4.0CCK-3CR Spec 14467J

Standard Parts Catalog 927-0300 Parts Key 3

Parts Listed Below Apply to the Above Model. Use These Parts in Place of (or in Addition to) the Parts Listed in the Standard Parts Catalog.

PART NO.	QUAN.	DESCRIPTION
104-0882	1	Crankshaft
103-0332	1	Gearcase Assembly
134-3041	1	Scroll - Air
517-0035	1	Plug, Dot Button
193-0031	1	Clamp, Oil Gauge
201-1735	1	Armature, Generator
220-1484	1	Stator, Generator
234-0300	1	Cover, End Bell
211-0220	1	End Bell, Generator
520-0598	1	Stud, - Through Armature

SPECIAL PARTS LIST FOR MODEL

S.OUCK-150R

SPEC

14851J

FOR STANDARD PARTS REFER TO CATALOG 927-0300

KEY NO. 10

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

611-0856-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Gas Fuel System			* For Component Parts, Check Alternator Nameplate and Contact Your Nearest Motorola Dealer.		
110-0893	4	Washer, Valve Spring Retainer	# Parts Included in 142-0372 Gas Carburetor		
516-0141	2	Pin, Gear Cover	+ Parts Included in 191-1232 Alternator System.		
150-1577	1	Bracket, Governor Spring			
154-0526	1	Manifold, Exhaust			
148-0147	1	Pipe, Fuel			
142-0372	1	Carburetor, Gas (Refer to Gas - Gasoline Carburetor 142-0367 for Components, Except Parts Marked #)			
813-0103	1	#Screw, Throttle Stop Clamp (#10-32 x 3/4")			
505-0008	1	#Plug, Pipe (1/8")			
142-0015	1	#Plug, Carburetor Body			
148-0017	1	#Gasket, Carburetor Body Plug			
142-0040	1	#Needle, Idle Adjusting			
142-0282	1	#Spring, Idle Adjusting Needle			
812-0088	1	#Screw, Carburetor Adapter Mounting (#8-32 x 1 3/4")			
812-0125	1	#Screw, Carburetor Adapter Mounting (#12-24 x 1/2")			
812-0075	1	#Screw, Round Head Machine (#8-32 x 1/4")			
850-0038	1	#Spacer, Lockwasher - Carb Adapter Mounting (1/4")			
134-0674	1	Housing, Cylinder Air - Right (#2 Cylinder)			
167-0237	2	Plug, Spark			
526-0122	3	Washer, Alternator Bracket Mounting			
191-1232	1	Alternator System - Complete (35 Amp., 12 Volt) Motorola #RA12N35-ON2 Includes Parts Marked +			
191-1233	1	*+Alternator (Only)			
191-1243	1	*+Regulator, Voltage			
191-0623	1	+Pulley, Alternator			
191-0537	1	Bracket, Alternator Mtg.			
191-0535	1	Bracket, Alternator Adj.			
166-0376	1	Bracket, Coil Mounting			
416-0096	1	Clamp, Harness			
222-1545	1	Coil Assembly, Field			
201-0965	1	Rotor Assembly, Wound			
515-0122	1	Key, Blower to Armature			
336-0102	1	Jumper, Starter to Solenoid			
338-0406	1	Harness, Wiring			

Dated

Dec 1, 1978

Revised

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